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1922

Canisius College

Buffalo, N. Y.



Annual Catalogue

Fifty-third Year

1922-1923

FIFTY-THIRD

ANNUAL CATALOGUE

OF

CANISIUS COLLEGE



BUFFALO, NEW YORK

1922-1923

Canisius College

This institution, conducted by the Fathers of the Society of Jesus, was opened in September, 1870, and incorporated on January 11th, 1883, by the Regents of the University of the State of New York, under the corporate title of

"The Canisius College of Buffalo, N. Y."

and empowered to confer degrees and academic honors. On October 25th, 1906, the charter of the College was amended so as to include the High School or Academic department.

Canisius College is accredited by the Association of Colleges and Preparatory Schools of the Middle States and Maryland.

BOARD OF TRUSTEES

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REV. MILES J. O'MAILIA, S. J.

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Faculty

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REV. MILES J. O'MAILIA, S. J.	<i>Dean of College and Professor of Philosophy</i>
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REV. EDWARD T. FARRELL, S. J.	<i>Professor of Psychology and Ethics</i>
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REV. JOSEPH A. MULRY, S. J.	<i>Professor of Logic</i>
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REV. FRANCIS X. SINDELE, S. J.	<i>Professor of English and Classics in Sophomore Class</i>
REV. THOMAS A. WARD, S. J.	<i>Professor of Latin and Classics in Freshman Class</i>
JAMES H. CROWDLE, D. Sc.	<i>Assistant Professor of Chemistry</i>
EMIL A. FREY, M. A.	<i>Instructor in German</i>
AUSTIN McTIGUE, M. S.	<i>Instructor in Physics</i>
DANIEL P. MOYNIHAN, San. E.	<i>Instructor in Biology</i>
JOSEPH MULDOON, M. S.	<i>Assistant Professor of Chemistry</i>
LOUIS A. PINGITORE, M. A.	<i>Instructor in French</i>
EDWARD J. RAHILL, Ch. E.	<i>Assistant Professor of Mathematics</i>
MANUEL RIVERA	<i>Instructor in Spanish</i>
MIGUEL RODRIGUEZ	<i>Instructor in Mechanical Drawing</i>
NICHOLAS J. SCHMITT, M. S.	<i>Instructor in Physics</i>
JOHN L. STAMP, B. S.	<i>Instructor in Public Speaking</i>
D. W. WILSON, M. A.	<i>Lecturer in Physical Chemistry and Industrial Chemistry</i>
RUDOLPH BUCHHEIT	<i>Assistant in Biology</i>
JOSEPH DARGAN	<i>Assistant in Biology</i>
OSMOND GAUL	<i>Assistant in Physics</i>
STANLEY NOWAK	<i>Assistant in Biology</i>
EDWARD W. O'BRIEN	<i>Assistant in Chemistry</i>
MARK E. FRIEL, B. S.	<i>Assistant in Chemistry</i>
JOSEPH R. MULLEN, B. A.	<i>Assistant in Chemistry</i>

Faculty

SUMMER COURSE, 1922

REV. FREDERICK J. BUNSE, S. J.	<i>Latin and Greek</i>
REV. GEORGE HOGAN, S. J.	<i>Latin</i>
REV. RICHARD SCHMITT, S. J.	<i>Ethics</i>
DR. HENRY LAPPIN, B. A., Litt. D.	<i>English</i>
JOHN A. CURTIN, M. A.	<i>Biology</i>
VICTOR KLESS, M. A.	<i>Mathematics</i>
J. BERCHMANS BOLAND, M. A.	<i>Chemistry</i>
LEO A. SWEENEY, M. S.	<i>Chemistry</i>
NELSON MERCER, M. S.	<i>Chemistry</i>
EUGENE KLOCKE, M. A.	<i>Physics</i>
HENRY A. DAWSON, M. A.	<i>Latin</i>
JEROME A. SCHERER, M. A.	<i>Mathematics</i>
JOHN E. MULLIN, B. A.	<i>English</i>
WILLIAM H. DAVENPORT	<i>English</i>
ELINOR PERKINS	<i>Music</i>

(Besides 13 members of the College Staff)

Additional Instructors

College Courses for Teachers

REV. FREDERICK BUNSE, S. J.	<i>Latin</i>
J. BERCHMANS BOLAND, M. A.	<i>Latin</i>
JOSEPH E. BRIGHT, B. S.	<i>Modern Banking</i>
HOMER BROWNING, B. A.	<i>Investments</i>
DR. MICHELE CABONI	<i>Italian</i>
WILLIAM H. DAVENPORT	<i>Spanish and English</i>
IRVING E. GEARY	<i>Accounting</i>
VICTOR J. KLESS, M. A.	<i>Mathematics</i>
JEROME A. SCHERER, M. A.	<i>Mathematics</i>
GEORGE W. WANAMAKER, M. A., LL. B.	<i>Business Law</i>
JOHN E. MULLIN, B. A.	<i>English</i>

(Beside 18 members of the College Staff)

Calendar

1922

Entrance and Conditions Examinations.....	Tuesday-Friday, September 12-15
Registration.....	Tuesday-Friday, September 12-15
Instruction begins.....	Monday, September 18
College Courses for Teachers.....	Monday, October 2
Annual Retreat.....	Wednesday-Friday, October 25-27
Retreat Holiday.....	Saturday, October 28
All Saints Day.....	Wednesday, November 1
Election Day.....	Tuesday, November 7
Marks for September-October close.....	Thursday, November 9
Thanksgiving Holidays.....	Thursday-Saturday, November 23-25
Marks for November-December close.....	Friday, December 22
Christmas Recess begins.....	Saturday, December 23

1923

Classes resumed. Repetitions begin.....	Wednesday, January 3
Preliminary contest in oratory announced.....	Wednesday, January 3
Subjects for prize essays announced.....	Wednesday, January 3
Mid-year examinations.....	January 25-29
Registration for second term.....	January 30 and 31
Mid-year holiday.....	Thursday, February 1
Second Term begins.....	Friday, February 2
Washington's Birthday.....	Thursday, February 22
Public Oratorical Contest.....	Monday, February 26
Marks for February close.....	Saturday, March 10
Debate for Canisius Alumni Sodality Medal.....	Thursday, March 15
Easter recess begins at 9 A. M.....	Wednesday, March 28
Classes resumed.....	Monday, April 9
Canisius Day.....	Friday, April 27
Marks for March-April close.....	Saturday, May 5
Ascension. Holy Day.....	Thursday, May 10
Reception. League of the Sacred Heart.....	Friday, June 1
College Courses for Teachers close.....	Saturday, June 2
Retreat to Seniors.....	Wednesday-Friday, June 13-15
Baccalaureate Sermon in St. Michael's Church.....	Sunday, June 17
Annual Commencement.....	Monday, June 18
Summer Session opens.....	Thursday, July 5
Summer Session closes.....	Friday, August 10
Entrance and Conditions Examinations.....	Wednesday-Friday, September 12-14
Registration.....	Wednesday-Friday, September 12-14
Instruction begins.....	Monday, September 17

General Statement

HISTORICAL

Canisius College was opened in September, 1870, by the Fathers of the Society of Jesus.

On April 27, 1872, the feast of Bl. Peter Canisius, patron of the new institution, the cornerstone of a larger brick building on Washington Street was laid by the Rt. Rev. Bishop Stephen V. Ryan, D. D., and in November of the same year the central portion of it was completed; the north and south wings, with the Chapel and Hall and the Infirmary, were added in later years.

In the year 1908 an important change occurred, in the discontinuance of the boarding department.

In 1911 began the erection of the present college building, on the former Villa ground, at the corner of Main Street and Jefferson Avenue. This structure was dedicated, with appropriate ceremonies, by the Rt. Rev. Charles H. Colton, Bishop of Buffalo, on December 30th, 1912. On January 6th, 1913, the four College classes were transferred to the new building, leaving the students of the four High School years at the former location on Washington Street. This local separation of the College from the High School has resulted in marked benefit to both.

As yet only the central portion of the main building has been erected. But its noble proportions and stately dome make it already one of the chief ornaments of the city. The structure is of re-enforced concrete, absolutely fireproof, and provided with exceptionally perfect scholastic and scientific equipment. The two wings of the main building, together with a separate science building and a gymnasium, will be erected in the near future with the funds secured through the successful campaign for \$1,000,000 which was completed in October, 1920.

The educational system followed is substantially that of all the Colleges conducted by the Society of Jesus in every part of the world. Based on the famous Ratio Studiorum Societatis Jesu, a system outlined by the most prominent Jesuit educators in 1599, revised in 1832, and attended up to the present day with unflinching success, it secures on the one hand that stability so essential to educational thoroughness, while on the other it is elastic and makes liberal allowance for the varying circumstances of time and country.

While retaining, as far as possible, all that is valuable in the older learning, it adopts and incorporates the results of modern progress.

But its methods of teaching, being truly psychological, based upon the very nature of man's mental processes and perfected by centuries of experience, are applicable to all times and to every place. It is a noteworthy fact that many of the recently

devised methods of teaching are in reality mere revivals of devices recommended long ago in the *Ratio Studiorum*.

Those who are desirous of making either a scientific or historical study of this system will find abundant sources of information in the following works: *Monumenta Germaniae Pedagogica*, Vols. II, V, IX, XVI; *Un Collège Jésuites*, per C. De Rochemonteix, S. J. For a shorter, yet thorough commentary on the *Ratio Studiorum*, the reader is referred to *Jesuit Education*, by Rev. Robert Swickerath, S. J.

BUILDINGS AND GROUNDS

The new building in which Canisius College has been housed since January, 1913, is extremely perfect in respect to light, ventilation and hygiene. Being of re-enforced concrete construction, with trimmings of Vermont and Tennessee marble, it is considered entirely fireproof.

The building still lacks the two capacious wings necessary for its completion. While the class room accommodations and the laboratories are sufficient, though barely so, for present requirements, great need is felt of an assembly hall for academic gatherings, lectures and dramatic entertainments, of a chapel, a library and a gymnasium. The rooms in which these most important departments are temporarily established are entirely inadequate.

The athletic field adjoining the College comprises some eight acres and is well graded.

EQUIPMENT

Libraries.—The Faculty Library comprises about ten thousand volumes. Although this number is small, the careful selection of the works renders the collection very useful for the purpose of the professors.

The Students' Library also comprises about four thousand books. The leading periodicals are supplied to the Reading Room.

A special Scientific Reference Library of over two thousand volumes and a large number of periodicals relating to branches of Natural Science are at the command of students in these fields.

If the books of the High School are included, the College possesses in all some fifty thousand volumes, exclusive of pamphlets.

Science Departments.—The equipment of each department, Chemistry, Physics, Biology, consists of an amphitheater, capable of seating comfortably eighty students, a private laboratory for the instructors and advanced students, and large, well-lighted students' laboratories.

A large supply of chemical apparatus of recent type affords facilities for experiments and systematic work in all the departments of general, analytical, organic and industrial chemistry.

The stock of instruments is abundantly sufficient for all the courses offered in physics, and is being constantly added to. The Bischoff collection of lantern-slides, numbering twelve thousand and covering most natural science subjects, as well as subjects of history, travel, etc., is kept in the instrument room. One thousand lantern-slides, constituting ten lectures on strictly technical subjects, have recently been added to the Bischoff collection.

Astronomy.—For Astronomy, the College possesses an excellent 3½-inch equatorial, and a collection of five hundred lantern-slides.

The Seismological Observatory.—The Seismological observatory is situated in a vault in the basement. It is provided with an eighty kilogram Weichert horizontal pendulum (astatic). The instrument, encased in an air-proof chamber, rests upon a solid concrete base which extends to solid rock twenty feet below the level of the street. The concrete pier is surrounded by water on the surface of which floats oil. The arrangement prevents slight surface shocks from being recorded. The location of the seismograph is extremely favorable for the observation of earthquakes and earth tremors and the instrument has shown remarkable sensitivity. Since the installation of the instrument disturbances as far east as Smyrna, a distance of approximately 10,000 miles, have been noted. Since the first of January, 1915, the Canisius Seismological Observatory has become one of two hundred stations co-operating with the United States Weather Bureau, Department of Seismology. Upon the invitation of the chief, Professor C. F. Marvin, monthly reports are sent to Washington and printed in the "Monthly Weather Review."

Scientific Collections.—The College possesses the following valuable collections:

Collections of fossils, rocks, ores and other minerals, for the study of geology; the Ashton collection of shells and corals.

Collections of reptiles, insects and birds; over one thousand specimens of the flora of New York State.

The Ottomar Reinecke collection of Coleoptera.

In addition there are collections of Indian relics, Japanese curios, coins and stamps. Bibles and manuscripts. This last named collection includes a copy of the famous Kolberger Bible in German, published in 1483, the year of Luther's birth; the great Antwerp Polyglot Bible in six versions, a German Bible of 1543, translated by Peter Jordin, and another of 1536 by Dr. Johannes Eck, with other editions of the Scriptures in western and oriental languages and many early and curious printed works, maps, etc.

Income, Needs of the College, Acknowledgments

The endowment of the College in buildings, educational apparatus and general equipment is of great value. A small productive fund also exists, consisting of foundations made from time to time for scholarships. This, however, is as yet comparatively trifling in amount. The ordinary source of income is the fees of the students. A debt of very considerable proportions has been incurred by the erection of the new and splendid College building. The existence and work of the institution would be precarious or impossible were it not for the fact that the President and the other priests, scholastic and coadjutor brothers of the Society of Jesus give their services without compensation.

It is of the utmost importance that the debt should be rapidly diminished and that the College should be placed in a position to erect the wings originally planned for the structure and to undertake other greatly needed improvements.

For these purposes and for the general development of the College, the President appeals to all graduates, former students and friends of Catholic education for donations and legacies. The names of donors will be attached to buildings erected or funds established by them.

The President and Faculty wish to express their grateful acknowledgments to the following benefactors for their kind donations:

To all contributors to the Million Dollar Expansion Fund.

All Donors of Medals as specified in the Commencement Exercises.

The Canisius Sodality, one Annual Scholarship.

The Canisius Alumni Association, one Annual Scholarship.

The Buffalo Volksfreund Printing Co., one Annual Scholarship.

College Organizations

ATHLETIC ASSOCIATION

Faculty Director of Athletics.....	REV. OWEN S. C. MURPHY, S. J
President.....	JAMES E. HOAR, '23
Vice-President.....	JOHN D. NAPLES, '24
Secretary and Treasurer.....	EDWARD M. CANTY, '23
Executive of Senior Class.....	LEO A. JOYCE, '23
Executive of Junior Class.....	CORNELIUS F. WARD, '24
Executive of Sophomore Class.....	JOHN E. NILAND, '25
Executive of Freshman Class.....	JOSEPH D. HILLERY, '26
Manager of Football.....	
Captain of Football.....	
Coach of Football.....	LUKE J. URBAN, A. B.
Assistant Coach of Football.....	FRANK MORRISSEY, A. B.
Manager of Basketball.....	RAYMOND J. GORDON, '23
Coach of Basketball.....	LUKE J. URBAN, A. B.
Cheer Leader.....	EDWARD M. CANTY, '23

THE CANISIUS MONTHLY

The Canisius Monthly was founded in September, nineteen hundred and fourteen. It is the outgrowth of the College Annual, a literary magazine published by the students of Canisius College at Main Street and Jefferson Avenue, Buffalo, New York. Its aim is to cultivate a high literary spirit among the student by exercising them in both critical and creative composition. It serves also as a bond between the Alumni and their Alma Mater, by chronicling their success and recounting the happenings of college life. It is issued about the tenth of every month excepting July, August and September. The subscription price is one dollar and fifty cents a year in advance; single copies, twenty cents. Remittances, literary contributions and business letters should be addressed to The Canisius Monthly, Main Street and Jefferson Avenue, Buffalo, New York.

THE CANISIUS ALUMNI ASSOCIATION

Membership in this organization is open to all graduates of Canisius College and to priests who have finished the Sophomore Class. All students of college classes at Canisius, who have afterward taken degrees at other institutions of like grade, are eligible under certain conditions.

The object of the Association is to keep up the friendship of college days, to promote higher Catholic education and to further

the interests of Alma Mater and the individual members of this Association.

OFFICERS

Spiritual Director.....	REV. M. J. AHERN, S. J.
President.....	T. L. HOLLING
First Vice-President.....	H. M. FEIST
Second Vice-President.....	F. E. FRONCZAK, M. D.
Secretary.....	F. C. FORNES
Treasurer.....	A. G. STEGMEIER
Registrar.....	A. G. FRIES
Master of Probationers.....	J. J. HELBLING
Organist.....	E. J. HENS
Librarian.....	J. N. FORNES
Consultors—	P. E. BALTHASER, N. J. FUNK, F. D. HIGGINS, J. S. KAS-
	ZUBOWSKI, J. L. LUDAESCHER, N. I. MURPHY, B. POLLUTRO,
	J. G. SCHAFF, L. A. SELMON.

CANISIUS COLLEGE DEBATING SOCIETY

This Society not only affords opportunity for acquiring facility in public speaking and debate, but aims also at imparting a general knowledge of the political, economical and social questions of the day. Every speech, essay or declamation is followed by frank criticisms from the Director and the members. General discussions give ease and readiness in extempore speech. Meetings are held every Monday afternoon after class hours.

Moderator.....	REV. JOSEPH A. MULRY, S. J.
President.....	GERVASE M. MAGRUM, '23
Vice-President.....	JOHN D. NAPLES, '24
Secretary.....	EDWARD C. CULLITON, '24
Treasurer.....	FRANCIS J. SEYMOUR, '24

SODALITY OF THE BLESSED VIRGIN MARY

Under the Title of the Purification, and of St. Stanislaus Affiliated to the Prima Primaria of the Roman College, January 1, 1896

Director.....	REV. EDWARD T. FARRELL, S. J.
Prefect.....	GERVASE M. MAGRUM, '23
First Assistant Prefect.....	EDWARD L. SCHWEGLER, '23
Second Assistant Prefect.....	EARL M. KLEIS, '23
Secretary and Treasurer.....	JOHN GENTSCH, '23
Consultors—	ANDREW BARTEN, '25; JAMES E. HOAR, '23; CHARLES
	GAMPP, '24; HOWARD GLEASON, '24; LAYTON WATERS,
	'25; HUGH WOLF, '23.
Organist.....	WILLIAM J. GRIFFIN, '23
Porter.....	JOHN NILAND, '25

Admission

Candidates for admission, who are not personally acquainted with some member of the faculty, must present testimonials of good moral character. If they have previously attended some other institution of learning, detailed information concerning their previous studies is demanded, as well as a certificate of their class standing, and of honorable dismissal.

Admission may be by Examination, Regents' Diploma, or Certificate from an accredited academy, high school or normal school.

In all cases, the candidate must give satisfactory evidence that he has completed successfully a four years' course of study.

By Examination.—Students choosing this method of admission may take the examination of the College Entrance Examination Board, whose certificate will be accepted as far as it is equivalent. Information regarding the places, fees, dates and conditions of such examinations may be obtained from the Secretary of the College Entrance Examination Board, Postoffice Sub-station 84, New York, N. Y. Students, however, wishing to take the examination at Canisius will apply to the Dean for a list of subjects of examination and the dates on which they will be held.

By Regents' Diploma.—The Academic and the College Entrance Diploma of the Regents of the University of the State of New York will be accepted in place of the examinations, as far as they cover the requirements for admission.

By Certificate.—The certificate will be accepted provided the subjects are equivalent to, or cover, the entrance requirements. In all other subjects an examination will have to be passed.

I. REQUIREMENTS OF ADMISSION TO REGULAR B. A. COURSE

N. B.—The term "unit" means a course of four to five hours weekly throughout an academic year of the preparatory school.

Candidates for the degree of Bachelor of Arts must present from the list of subjects on pp. 15-17:

English 1, 2, 3.....	3	units
Latin 1, 2, 3.....	3	units
Greek, 1, 2, 3.....	2	units
Mathematics, 1, 2, 3.....	2½	units
French, German or Spanish 1, 2.....	2	units
History	1	unit
Elective	1½	units
		15 units

N. B.—Should a candidate, otherwise qualified, be unable to meet the requirements in Greek, he may either take elementary Greek in his Freshman year and finish the Greek course before graduation, or substitute other courses approved by the Dean.

II. REQUIREMENTS OF ADMISSION TO SCIENCE AND ENGINEERING COURSES

Candidates for the degree of Bachelor of Science must present:

English 1, 2, 3.....	3	units
Mathematics—		
Algebra	1½	units
Plane Geometry	1	unit
Solid Geometry	½	unit
Latin, 1, 2	} one of these.....	2 units
French 1, 2		
German 1, 2		
Spanish 1, 2		
Science	2	units
History	1	unit
Elective	4	units
	<hr/>	
	15	units

Elective units should be chosen from Latin, Greek, Modern Foreign Language, Mathematics, Mechanical Drawing, Science.

Requirements for admission to Premedical courses same as above, with the exception of Solid Geometry.

REQUIREMENTS IN INDIVIDUAL SUBJECTS FOR ADMISSION TO REGULAR COURSES

English. 1. Principles—Principles of Composition and Rhetoric involved in the use of words, the structure of sentences and paragraphs; the ordinary forms of composition; letters, narrations, descriptions and essays, versification. The matter contained in Genung's Outlines of Rhetoric and Coppen's Introduction to Rhetoric will serve to indicate what is demanded under this head.

2. Practice—The candidate will be required to write an essay based on the authors specified below for thorough study. The work must be correct in spelling, punctuation, idiom and division into paragraphs, and must give evidence of some proficiency in narration and description.

3. Literature—(a) A thorough study of the following works is required: Shakespeare's Merchant of Venice; Tennyson's Holy Grail and Sir Galahad; Gray's Odes and Elegy; Macaulay's Essays on Addison and Life of Johnson; Scott's Lay of the Last Minstrel; De Quincey's Joan of Arc; Irving's Sketch Book; Goldsmith's Deserted Village. (b) A general knowledge of the following is required: Addison's Sir Roger de Coverley; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Dickens' Christmas Stories; Longfellow's Hiawatha; Hawthorne's Tanglewood Tales; Wordsworth's Selected Poems.

Latin. 1. Grammar—A thorough knowledge of the grammar, particularly of the structure of subordinate and dependent clauses in direct and indirect discourse. Also some acquaintance with Latin prosody and its application to hexameter and pentameter verse; scansion of Virgil and Ovid.

2. Composition—Translation into Latin of an easy continuous prose passage, based upon Cæsar or Cicero.

3. Reading—Nepos: Lives, to the end of the life of Alcibiades; also the Atticus. Cæsar: De Bello Gallico, four books. Ovid: Selections from the Metamorphosis and Tristia (1000 lines). Virgil: Eclogues; Aeneid, Book I. Cicero: De Senectute or De Amicitia. Orations against Cataline. Sallust: Cataline or Jugurtha. The translation at sight of passages not previously seen. Equivalents will be accepted; but the reading required must not be less in amount than the above.

Greek. 1. A thorough knowledge of the etymology and syntax of the Greek grammar is required and must be shown by the candidate in oral explanation of passages taken from authors and in translation from English into Greek.

2. Reading—Xenophon, four books of the Anabasis, or an equivalent from the other writings of Xenophon.

3. Sight reading of easy Attic prose.

History.—1, Greek and Roman History; 2, English History; 3, American History. Elements of Civics; 4, General History.

Mathematics.—1, Elementary Algebra; 2, Intermediate Algebra; 3, Plane Geometry; 4, Solid Geometry; 5, Advanced Algebra.

MODERN LANGUAGE

French.—1, The elements of grammar, including the irregular verbs. Corresponding oral and written exercises. Analysis and idiomatic translation of Mairat, "La Tache du Petit Pierre," or equivalent. 2, Syntax. Corresponding exercises from gram-

mar and author. Daudet, "Le Petit Chose," and Halevy, "L'Abbe Constantin" or the equivalent.

German.—1, Elements of grammar, including the irregular verb. Corresponding oral and written exercises. Reading: "Märchen und Erzählungen" or the equivalent. 2, Syntax with corresponding exercises from grammar and author. Reading: Stökl, "Unter dem Christbaum," and Schiller, "Das Lied von der Glocke," or the equivalent.

Spanish.—1, Grammar as for French and German. Reading: Dorado, "España Pintoresca." 2, Reading: Tomayo, "Lo Positivo."

Physics.—The most important facts and laws in elementary physics. Preparation should include the mastery of a standard text-book supplemented by numerical problems, instruction by lecture with demonstration and individual laboratory exercises. Note-book to be submitted.

Chemistry.—Preparation and properties of the common elements and their important compounds. Mastery of the more usual chemical terms and ability to make simple calculations and explanations of chemical processes. Preparation should include lectures and demonstrations, study of standard chemistry text-books, and laboratory exercises. Note-book to be submitted.

Elementary Biology.—(a) Courses of four or five periods a week in Botany, Zoology or Physiology; or (b) Courses of two or three hours a week in any two of these.

ADMISSION TO ADVANCED STANDING

A candidate for admission from another college must present a letter of honorable dismissal from the president or dean of that college. The faculty will accept properly authenticated certificates of work done in other colleges of good standing. No student, however, may be admitted as a candidate for a degree after the beginning of the Senior year of the class with which he would graduate.

For studies not pursued in residence and not certified to by a recognized institution of higher learning, credits toward degrees or certificate may be granted only in exceptional cases and only if the student passes successfully a special examination in each study for which credit is requested. Students who desire a special examination of this kind in order to secure credit for advanced standing must at the time of matriculation file with the Dean an application setting forth distinctly the facts and the evidence on which the request is based. If the application is granted by the Faculty, the special examination must be taken before the close of the first semester following matriculation.

ADMISSION TO SPECIAL CURRICULA

Candidates desiring to omit certain branches in any of the established curricula may be admitted as Special Students, provided they show themselves qualified to follow successfully the studies chosen. Such students are not candidates for a degree, but will receive a certificate showing their standing in all branches completed by them. The course in Philosophy, either in Latin or English, offers many intellectual advantages.

CONDITIONAL ADMISSION

Conditional admissions to A. B. course is granted to students who have earned 14 clear credits (13 for B. S. and Premedical Courses) in high school work. The conditions must be removed within one year from the date of admission.

ADMISSION TO GRADUATE COURSES

Students holding the degree of A. B. or B. S. from this College or other institutions of satisfactory standing may undertake postgraduate studies under the direction of the Dean and the heads of various departments.

Elective studies which have not been taken in the undergraduate years may be chosen for postgraduate work; but in this case candidates will be obliged to pursue them in a more extended form.

In the Department of Arts, some branch of Philosophy must be taken by every candidate for a higher degree.

For the Master's degree in Arts or Science, the equivalent of a year's college work is required. It must be understood that only students of exceptional ability and previous training will be able to finish the work in one year.

Examinations must be passed in every branch counted for a degree, and a thesis must be submitted showing original work. The examinations in all branches will be written and in certain branches oral examination will also be required, as determined by the Professors and the Dean.

Registration

Before attending any college exercise, each student must register, i. e., must present himself in person to furnish the information necessary for the college records and to file a statement of the courses he intends to pursue.

Registration is held at the office of the Dean, which is open for that purpose on the dates given in the college calendar. A registration or college fee of Five Dollars shall be paid by every new student entering the college.

Tuition Fee.—(a) All students of the Arts, Science and Premedical courses are charged besides the regular tuition fee of \$150.00, a special fee to cover the expense of materials used in the laboratory and lectures and for the use of general scientific apparatus. These charges are higher for students of the Science and Premedical courses, owing to the larger proportion of laboratory work and the consequent use of materials and apparatus.

(b) All students of the Business, Journalism and Engineering courses are charged the same tuition fee as students of the Arts course, and an extra fee will be charged for any subjects that are not specifically assigned to these courses.

N. B.—Some subjects of the Business course, e. g., Accounting, Banking, etc., are taught in the evening only.

(c) Special students taking ten hours a week or less, are charged at the rate of Five Dollars per semester hour. If they take more than ten hours a week, they are subject to the full tuition of \$150.00.

Fees and Other Expenses

Tuition in all departments, per annum.....	\$150.00
Registration fee—new students.....	5.00
Library fee and incidental fees, per annum.....	5.00
Athletic fee.....	10.00
Breakage fee (Returnable).....	10.00

SPECIAL FEES PER ANNUM

	Biology	Chemistry	Physics
Arts Course	\$15.00	\$10.00	\$10.00
Science	15.00	10.00	10.00
Journalism	15.00	10.00	10.00
Business	15.00	10.00	10.00
Special Lectures	15.00	10.00	10.00
Graduation Fee	15.00		

All charges for tuition are to be paid half yearly in advance.

Accounts date from the opening day of college, and students entering later will be charged for the full term.

Former students applying for a detailed certificate of standing must pay a Registrar's fee of \$1.00.

Fee for examination in any conditioned branch, each subject, payable in advance, \$2.00.

Text-books and stationery when purchased from the College must be paid for in cash.

Return of Fees.—(1) A student who withdraws on account of sickness shall be given a return pro rata to the number of weeks in the academic session.

(2) A student who withdraws for reasons other than sickness, or who is dismissed for any reason whatever, shall be entitled to no allowance upon any of the fees he has paid.

Fellowships

The John A. Miller Fellowship in Chemistry, founded in 1919, in honor of Dr. John A. Miller of Buffalo, N. Y., awarded annually to a graduate of Canisius College, holding a bachelor's degree. The holder gives half his time to laboratory instruction, and devotes the remainder to study and research, with a view to obtaining the degree of M. S.

The Victory Fellowship in Chemistry, founded in 1919, to commemorate the Victory meeting of the American Chemical Society which was held in Buffalo in April, 1919. Conditions and obligations are similar to the John A. Miller Fellowship.

Two Fellowships in Physics were awarded for the first time in 1920.

One Fellowship in Biology.

The total value of each of these Fellowships is about \$500.00 a year. Complete information regarding Fellowships may be had from the Dean.

Scholarships

The Scholarships are of two kinds—permanent and annual. A permanent scholarship is provided by a gift of \$3,000; an annual scholarship by a gift of \$150.00.

The following scholarships now exist in the College and High School and are available as they become vacant:

PERPETUAL SCHOLARSHIPS

- Miss Flora Fricker (1).
- Rev. H. M. Leddy (3).
- Rt. Rev. Msgr. John Biden, D. D. (1)
- St. Michael (1).
- Canisius Alumni Sodality (1).
- C. H. F. Scholarship (1).
- Ignatius Woeppel (1).
- Rosa Mystica (J. L. P.) (1).
- Rev. William Riszewski (1).
- Rev. George Weber (1).
- D. H. Coakley, Brighton, Mass. (1).
- Albert A. Bettinger Scholarships.
- General Scholarships (18).

The following perpetual scholarships were established as a result of the Million Dollar Campaign held in October, 1920:

Rt. Rev. William Turner	St. Francis de Sales Church
Rev. H. B. Laudenbach	St. Francis Church Society
Rev. H. J. Adelman, S. J.	Mrs. Catherine Simons
Rev. Alexander Pitass	Mr. Peter Hentz
Rev. Thomas Stabenau	Mr. and Mrs. M. A. Martin
Rev. Leon E. Hoen	Mr. Charles P. Dewes
St. Michael's Church	Mr. Mathias Hens
Greater Buffalo Advertising Club	

ANNUAL SCHOLARSHIPS

One Scholarship given by the Canisius Alumni Association.

One Scholarship given by the Canisius Alumni Sodality.

One Scholarship given by the Rev. Joseph Hummel.

One Scholarship given by the

Rt. Rev. Msgr. Chas. Duffy, D. D.

The Scholarships at present in existence apply to both the High School and College, but the tenure of the incumbent ceases at the end of the High School period and the Scholarship is thrown open to general competition for the College course.

Any holder of a Scholarship whose conduct or proficiency in studies fails to give satisfaction to the College authorities will forfeit his privilege.

Information concerning conditions, dates of competition, etc., may be obtained from the Dean.

NEW YORK STATE UNIVERSITY SCHOLARSHIPS

In every county of New York State, five Scholarships for each assembly district comprised therein are given annually by the State. In Erie County, therefore, the number of such Scholarships is forty-five.

Each such Scholarship entitles the holder thereof to the sum of one hundred dollars for each of the four years of attendance upon an approved college in this State.

The Scholarships are conferred by the Commissioner of Education upon those students who have passed with the highest standing in their respective counties (not districts) the Regents' examinations for college entrance and have secured the corresponding diploma.

Canisius College is one of the approved institutions in which such Scholarships may be enjoyed.

Medals and Prizes

None of the medals or prizes offered by the College are founded, but are presented from year to year by various generous benefactors.

The St. Thomas Aquinas Medal.—A gold medal is awarded annually to the member of the Senior Arts Class who is most proficient in Philosophy.

The Suarez Medal.—A gold medal is awarded annually to the student in Senior Science Class who shows most proficiency in Philosophy.

The St. Ann's Medal.—A gold medal, the gift of the Jesuit Fathers of St. Ann's Church, Buffalo, N. Y., is awarded annually to the student in Junior Arts Class who has the highest Class standing in Philosophy, Physics and Chemistry or Biology.

St. Aloysius Medal.—A gold medal is awarded annually to the student in Junior Science Class who has the highest class standing in Philosophy and Science.

Class Medals.—Gold medals are awarded annually to the students who attain the highest class standing in Sophomore and Freshman Arts and in Sophomore and Freshman Science Classes.

The Pasteur Medal.—A gold medal is awarded annually to the student in second year of the Premedical Course who has the highest standing in English and Science.

The Father Wassman Medal.—(Same for first year of Premedical Course.)

N. B. Premiums.—Book prizes are awarded annually to the students who stand second highest in all the above mentioned classes.

The Canisius Alumni Sodality Medal.—A gold medal, the gift of the Canisius Alumni Sodality, is awarded annually to the student who wins first place in the Oratorical Contest held in the spring of each year.

Essay Prizes.—Six prizes of twenty dollars are awarded annually to the students who present the best essay on some subject in Literature, History, Chemistry, Physics, Biology and Philosophy.

Book Prizes are awarded annually to the students who have the highest standing in History, Calculus, Freshman Mathematics, Natural Science in Sophomore Class, German and French.

The Valerian A. Ruskiewicz Memorial Prizes.—Two prizes of Fifty Dollars each to be awarded annually to the two members of the Senior class, who have the highest standing for all the work of their college course in Physics and Chemistry respectively.

General Regulations

DISCIPLINE

The regulations of the College are calculated to secure the order necessary for the effectual pursuit of studies, to develop and strengthen character, and to promote gentlemanly deportment and polite manners. They are enforced with parental gentleness, combined with energy and firmness. The motives appealed to are honor, conscience and religion.

Although the institution cannot be held responsible for the conduct of students outside of the premises, yet bad conduct outside as well as on the premises, profane or unbecoming language, insubordination, continued inapplication to studies or irregularity in attendance, are causes for dismissal.

All lecture and class hours are of fifty minutes' actual duration; laboratory hours, generally arranged in sessions of two or three together, are of sixty minutes.

The students are required to be regular and punctual in their attendance. Without regular attendance and serious application on the part of the students, it is impossible to attain the purpose for which they are received into the institution.

Parents and guardians of students are informed that home study for the space of two or three hours is required every day. If a student does not devote this amount of time to his studies, the Prefect of Studies should be informed. A notice should also be sent whenever illness or any other cause prevents a student from attending class; a written excuse signed by parents or guardian must be handed to the Prefect before a student is again admitted to the class. But even when so excused, students are not relieved from the duty of making up any work that was required during the time of their absence. Students who are not present 90% of the school year cannot be promoted in June. Frequent communication of parents with the authorities is invited.

EXAMINATIONS AND REPORTS

The standing of each student is determined by daily recitations, home work and oral and written reviews.

The first prize in each class is a gold medal, which is awarded to the student who has the highest class standing for the whole year; a premium is awarded to the student next in merit. Premiums are also awarded to all students having the highest total average in their respective classes of Mathematics, of Modern Languages, or of Sciences. Distinctions in single branches suppose a percentage of 80 in that branch.

No medals are awarded for class standing under 90; no premium for class standing under 85.

Students who fail to reach an average of 65 per cent for the year in any class branch are debarred from the medal and the premium of that class, even though their general average might otherwise entitle them to one or the other.

Any serious complaint against a student's conduct, attendance, application or deportment will exclude him from all honors.

In determining the class standing in the Arts course, Latin Greek, English, History and Evidences of Religion are combined. Separate averages are computed for standing in Mathematics, Natural Sciences and Modern Languages.

In the Science course a similar method is pursued, Natural Sciences, English, History and Evidences of Religion being combined in determining the class standing.

Frequent reports are sent to parents and guardians, who are requested to sign and return them promptly.

The student's proficiency is determined according to the following table:

A—100 to 95 per cent.....	Excellent
B— 94 to 85 per cent.....	Very Good
C— 84 to 75 per cent.....	Good
D— 74 to 65 per cent.....	Tolerable
E—Below 65 per cent.....	Failure and condition

A condition means that the student has to pass a satisfactory examination in the branch in which he has failed, before he can be promoted to a higher class.

No student will be permitted to take final examinations in any subject in which on June 1 his class standing (the average of monthly marks and mid-year examinations) is below 65.

Written tests in all branches are held repeatedly during the year. Oral examinations in Latin and Greek, and written examinations in all branches are held at the close of each term. A fixed day will be set for the examination of all students subject to conditions. A conditioned student will be required to pay a fee of two dollars.

After September, 1921, mark for recommendation to higher and professional studies, 75 %.

CHAPEL ATTENDANCE

Catholic students are required to make the annual Spiritual Retreat, and they are expected and urged to receive Sacraments of Penance and Holy Communion at least once a week. Non-Catholic students are not required to take part in the exercises of religion.

Divisions of Instruction

DIVISION OF ARTS AND SCIENCES

The most effective means for acquiring a broad and thorough cultivation of the mental faculties which is the aim of all true education and the best foundation for special and professional training, is recognized to be the full and accurate study of the Latin and Greek classics. In connection with these, a thorough training in the arts of composition and rhetoric and in general literature, together with a comparative study of the English language and literature, is essential.

The analytical study of language and letters promotes exactness of thought, delicacy of perception and facility of expression, by the constant and keen exercise of judgment and taste, as well as of the reasoning powers. In this regard, the languages of ancient Rome and Greece, when intelligently and seriously studied, offer greater advantages than any other. They are also most helpful to the knowledge of our mother tongue. Their structure and idiom, so remote from the language of the student, reveal to him the laws of thought and logic and demand reflection and analysis of the fundamental relations between ideas and expression; they exercise him in exactness of conception in grasping the author's meaning and in clearness and delicacy of expression in clothing that thought in the very dissimilar garb of his own native tongue.

One modern language, usually French or German, is required, in addition to English.

History, which has been rightly described as Philosophy taught by examples, brings the student in close contact with the great minds and characters of all ages and familiarizes him with the development and vicissitudes of civilization.

The Higher Mathematics, besides providing the scholar with the instruments of progress in the natural sciences, impart to the mental faculties a special kind of training that cannot be ignored.

The sciences of Physics, Chemistry, Geology and Biology must be known, at least in their outlines and with exact appreciation of their principles, if one wishes to be abreast of modern thought. They are, therefore, made obligatory features of the course.

But, above all, Mental Philosophy is considered of the highest importance. It gives the key to all true knowledge of nature, of man and God, and lays the only solid formation for all other sciences, while revealing their interdependence and method.

Hence in the last two years of the course a thorough study is made of Scholastic Philosophy in its various branches, such as

Logic, Metaphysics, Psychology, Natural Theology, Ethics and Political Economy.

The successful completion of the curriculum in Arts and Sciences, which extend through four years, leads to the degree of B. A.

REQUIREMENTS FOR GRADUATION

In order to receive a degree, a student is required to complete the usual prescribed and elective courses of a Jesuit College.

Requirements for B. A. Degree.—No student can receive the B. A. degree who has not pursued the last year of his undergraduate course in Canisius College. All candidates for the B. A. degree must take the following courses:

(a) In Freshman and Sophomore Classes:

Two courses in English and Latin.

Two courses in Greek or some other subject approved by the Dean.

One course in General Inorganic Chemistry.

One course in Physics.

Two courses in History.

One course in Modern Language.

One course in Mathematics.

(b) In Junior and Senior Classes:

Since Philosophy holds the position outlined above, each student is required to follow Scholastic Philosophy as his major subject in Junior and Senior. Related minor subjects must be chosen under the direction of the Dean and the heads of departments.

After September, 1921, candidates for all Bachelor Degrees must obtain an average standing of 75% in all studies of the four years.

DIVISION OF GENERAL SCIENCE

The course in General Science is intended for those students who wish to obtain a more specific training for later work in technological, medical or industrial science than the Arts Course affords. While it is not strictly a technical course, the subjects included represent more than half of those required in engineering courses in our leading technical schools. A student may thus make the first two years of an engineering course in connection with the liberal studies. The faculty hope soon to be in a position to announce courses in civil, mechanical, electrical and chemical engineering. At the same time, the demands of general culture will be fulfilled more completely than is usual in strictly scientific or technical education.

The Course in General Science differs from the Arts Course in this, that it substitutes for the requirements in Latin and Greek of the Arts Course, subjects in the Natural Sciences. Other subjects, viz.: English, History, Modern Languages, Evidences of

Religion, Elocution, Philosophy and Electives of a non-scientific character, are common to both courses. Philosophy, however, is reduced to a smaller compass and English is extended. The electives in Science in the Junior and Senior years will naturally be of a more advanced character in the Scientific Course than the similar electives in Science offered in the Arts Course.

The successful completion of this course is rewarded with the degree of Bachelor of Science.

PREMEDICAL

This course is intended for students preparing to enter upon the study of medicine, who are unable to devote to college studies the period of four years necessary for the attainment of a degree in Arts and Sciences.

All candidates for medical schools in New York State must present the medical-student certificate of the Regents of the University of the State of New York, based on the following qualifications: The completion of not less than two full years of study, or the equivalent, in an approved college or scientific school, which college course must have included at least one year's instruction in the elements of Physics, Inorganic Chemistry, and Biology, and French or German.

These courses represent the minimum requirements for admission to medical schools. It is highly recommended that, if possible, the college work include three, instead of two years, so as to allow a more thorough preparation in Physics, Chemistry and Biology.

The Premedical Course of Canisius College, besides the usual training in Science, Mathematics and Languages already noted, includes a solid training in general philosophy. It is felt that the prevalence in our time of false speculations and mistaken theories, and the general ignorance or neglect of the fundamental principles of morality, render such a course in the more important questions of Logic, Psychology and especially of Ethics, not only helpful to the students preparing for medical schools, but even necessary to fit them for their future studies and practice.

Great efforts have been made to have the Premedical Course meet all the requirements of the representative medical schools in the east.

First Year			Second Year		
Subject	Hours Per Week		Subject	Hours Per Week	
English	3		English	3	
Modern Language	3		Modern Language	3	
Psychology	3		Ethics	3	
Chemistry	4		Physics	5	
Biology	4		Chemistry	5	
	—		Biology	4	
	17			—	
				23	

The courses in Journalism, Business Administration and Engineering were begun in September, 1920. The schedules for these courses during 1922-23 follow:

BUSINESS ADMINISTRATION

Freshman Year		Sophomore Year	
Subject	Hours Per Week	Subject	Hours Per Week
English	3	English	3
Accounting	5	Economics	3
Business Law	2	Business Law	2
Modern Language	3	Advanced Accounting...	5
Industrial History	3	History	3
Mathematics	4	Modern Language	3
		Physics or Chemistry.....	3

JOURNALISM

Freshman Year		Sophomore Year	
Subject	Hours Per Week	Subject	Hours Per Week
English	3	English	3
Modern Language	3	Journalism	3
Natural Science or Latin	5	Modern Language	3
History	3	History	3
Public Speaking	1	Social Science	3
		Public Speaking	1

GENERAL SCIENCE AND ENGINEERING

Freshman Year

(Same for all courses)

Subject	Hours Per Week	Subject	Hours Per Week
General Inorganic Chemistry	5	Mathematics	4
Mechanical Drawing and Descriptive Geometry	3	Trigonometry Analytical Geometry	
		Physics	4
		English	3
		History	3

CIVIL ENGINEERING**Sophomore Year**

Subject	Hours Per Week	Subject	Hours Per Week
Applied Mechanics	1	Physics	4
Drawing, including Stereotomy	3	English	3
Elementary Surveying and Plotting	2	Geodesy, Map-reading and Topographical Drawing	2
Calculus	3	History	3

CHEMICAL ENGINEERING**Sophomore Year**

Subject	Hours Per Week	Subject	Hours Per Week
Qualitative Analysis	7	English and History.....	3
(Summer after Freshman Year)		German	3
Applied Mechanics	1	Calculus	3
Quantitative Analysis ...	4	Mechanism	1
Physics	4	Chemical Engineering Problems	1

ELECTRICAL ENGINEERING**Sophomore Year**

Subject	Hours Per Week	Subject	Hours Per Week
Applied Mechanics	1	Mechanism	2
Electrical Engineering, Principles of	2	Physics	4
English and History.....	3	Machine Tool Work.....	2
Drawing, Machine and Mechanical Engin- eering	3	Foundry and Vise and Bench Work	2
Mathematics (Calculus)	3	(To be taken in the Summer after the Sophomore Year.)	

MECHANICAL ENGINEERING**Sophomore Year**

Subject	Hours Per Week	Subject	Hours Per Week
Applied Mechanics	1	Mathematics (Calculus)	3
Drawing (including Ma- chine Drawing and Mechanical Engineer- ing Drawing)	5	Physics	4
Elementary Surveying...	1	Mechanism and Pattern Making	4
		English	3
		History	3

College Courses for Teachers

SEPTEMBER, 1922—JUNE, 1923

THE TEACHING STAFF

The instruction in these courses will be carried on by the members of the faculty of Canisius College, who will be assisted by special instructors from Canisius High School and other high schools and colleges of Buffalo and vicinity.

The attention of the public is called to the fact that these courses are not Extension Courses as generally understood, and should not be called Extension. The instruction given in the College Courses for Teachers corresponds in every respect, in the nature of scholarship required, in lectures, recitations, etc., to that offered in the regular courses and leads to the Bachelor degrees.

STUDENTS

The courses, which have been inaugurated in response to numerous and repeated requests, are open to both men and women.

They are designed primarily for two classes of students: First, mature students, unable to complete the regular college course, but who wish to pursue liberal studies of college grade, without aiming at an academic degree; second, teachers and others who are desirous of gaining credits towards a future degree. Students of this second class must fulfill the requirements for admission to the regular arts and science courses of the college. It must be clearly understood that this is not to be taken as meaning that any high school graduate may substitute these courses for a regular college course, or augment college credits by extension courses pursued simultaneously with a college course.

CREDITS

Under the direction of the faculty the extension courses will be so arranged as to count towards the degree of Master of Arts and Master of Science, as well as towards the degrees of B. A. and B. S.

To obtain college credits towards a degree, or to be entitled to a certificate of work done in the extension courses, attendance at nine-tenths of the sessions in each course is required besides passing marks in class work and examinations.

Students attending the courses may fulfill the two years of collegiate study required for entrance to medical schools.

ADMISSION REQUIREMENTS

Requirements for admission to the College Courses for Teachers are substantially the same as the requirements for the regular Arts and Science courses of the College.

REQUIREMENTS FOR GRADUATION IN THE COLLEGE COURSES FOR TEACHERS

In order to receive a degree a student is required to complete one hundred and twenty semester hours of work and to maintain an average grade of C i.e., 75—84.

BACHELOR OF ARTS

	Semester hours
English	12
History	6
Languages, Ancient	16
Languages, Modern	6
Mathematics	4
Philosophy	16
Sciences, Natural	8
Electives	52
	<hr/> 120

BACHELOR OF SCIENCE

	Semester hours
English	12
History	6
Languages, Modern	12
Mathematics	4
Philosophy	16
Sciences, Natural	16
Electives	54
	<hr/> 120

ELECTIVES

Chemistry
Biology
Physics
Geology
Astronomy
Mathematics

History
English
Greek
Latin
French
German
Music

Spanish
Philosophy
Political Economy
Sociology
Religion
Education

GRADUATION REQUIREMENTS FOR GRADUATES OF NORMAL SCHOOL

Graduates of Normal Schools who have satisfied the college entrance requirements, will be expected to obtain the following college credits for a Bachelor's degree in addition to work of the Normal School:

BACHELOR OF ARTS

	Semester hours
English	12
History	2
Latin	16
Modern Language	6
Mathematics	4
Philosophy	14
Sciences, Natural	6
	<hr/> 60

BACHELOR OF SCIENCE

	Semester hours
English	12
History	2
Modern Language	12
Mathematics	4
Philosophy	14
Sciences, Natural	16
	<hr/> 60

EXPENSES

Registration fee, payable once.....	\$5.00
Courses—For each credit hour (unless a special fee is fixed)	5.00

All fees must be paid in advance. No reduction is made for withdrawal or absence, except in case of protracted illness.

No student will be admitted to any class without proper assignment cards, given only after the payment of all fees.

No changes in classes permitted after three days from the opening of the school.

Former students applying for a detailed certificate of standing must pay a Registrar's fee of \$1.00.

Fee for examination in any conditioned branch, each subject, payable in advance, \$2.00.

Text-books and stationery, when purchased from the College, must be paid for in cash.

SPECIAL FEES FOR ACCOUNTING AND BUSINESS LAW.

If a course in Accounting E. I. is taken together with a course in Business Law, fees for both courses together with the necessary books: First term, \$50.00; Second term, \$30.00.

If a course in Accounting E. I. is taken without Business Law: First term (tuition and books) \$35.00; Second term (tuition and books) \$20.00.

Courses in Advanced Accounting, \$25.00 per term.

Courses in Business Law only (tuition and books) \$20.00 per term.

REGISTRATION

Registration for the First Term will be held on September 28, 29, 30, 1922. Classes begin on October 2nd. The First Term runs seventeen weeks and ends January 31, 1923.

Registration for the Second Term will be held on January 30-31, 1923. Classes begin on February 2nd. The Second Term will end June 2.

N. B.—The payment of fees is part of the registration. Fees, therefore, must be paid in advance.

Summer Session

A Summer School for the Teaching Sisters of the Diocese of Buffalo, under the auspices of the Right Reverend Bishop of Buffalo and the Diocesan Superintendent of Schools, was inaugurated at Canisius College in 1919. The courses are conducted by members of the faculty of Canisius College and of Canisius High School, of other Jesuit Colleges and High Schools, and of D'Youville College. The Summer Sessions are open to lay women as well as nuns.

The courses offered in the Summer School are designed to be of assistance to:

A—Sisters who are desirous of taking examinations in certain subjects for the State Teachers' Certificate;

B—Sisters and lay women who are desirous of gaining credits towards a possible future College degree.

Courses of Instruction

NOTE—The courses marked (E) are given in the College Courses for Teachers (1922-23); those marked (S) are the courses given in the Summer Sessions (1922). All other courses are those of the regular college curriculum.

APOLOGETICS

Apologetics S. 1.—Religion in general. The necessity for a revelation. Christian revelation, and evidence for the same. Christ, the founder of the Christian revelation. The Divinity of Christ and the proofs therefor. The Church, the depository of Christian revelation. Marks of the Church. The attack against Christian revelation from the votaries of Modern Thought and Materialistic Evolution. The Scriptures: their inspiration and interpretation. 2 credits.

ASTRONOMY

Astronomy.—Two periods a week for one term required in Senior class.

Celestial Mechanics, Descriptive Astronomy, Application of general principles of Trigonometry, Astronomical instruments, Observation.

BIBLE, THE

Bible E I.—Its origin, interpretation and inspiration. Monday and Wednesday, 4:30-5:45. 3 credits each term.

BIOLOGY

Biology I.—Two hours lecture and four hours laboratory work weekly throughout the year. The course is required for Premedical I and for those students in the Arts and Science courses who intend to study medicine.

This course affords preliminary work for all those students who intend to study medicine in the future. It has as its object the training of the powers of observation, comparison and judgment, by the actual examination of a number of typical animals and plants which have already been studied during the lecture period. As an intelligent use of the microscope and a certain skill at dissection are expected in first-class medical schools, much importance is laid on these matters.

Besides laying a foundation for the study of biology, the course comprises the study of typical forms among the plants and lower animals.

For this work a new biology laboratory with complete modern equipment has been built.

Biology II.—Two hours lecture and four hours laboratory work weekly throughout the year. This course is required of Premedical II and of those students of Arts and Sciences who took Premedical I.

This course supplements the work of Biology I. The end in view is the same, although greater stress is laid on the matter of microscopical work and dissection. Typical specimens from the five classes of vertebrates are carefully studied and dissected. During these dissections the position and structure of the various organs of the different animals taken are carefully compared. A certain number of microscopic slides are also required of all students. For this purpose a new rotary microtome, paraffin oven and other instruments have been provided.

Biology III.—Two hours lecture and four hours laboratory throughout the year. This course is required in Sophomore Science and optional in Junior and Senior Arts for the men who do not intend to study medicine.

This course gives a general knowledge of the whole field of Biology, including both animals and plants. As in Biology I and Biology II it still aims at developing the same powers of the mind, but in a way that will be most helpful to men in ordinary life, whether it be in business, in social or political life, or in the study of philosophy or theology. Consequently only those animals and plants are chosen that will best serve this purpose.

Biology E. I-II.—A course in General Biology, three hours lecture and two hours laboratory work. Saturday afternoon at 1:00. 4 credits each term. (Other hours by appointment.)

Biology, S. 1-2.—First half of the General Biology Course, one hour lecture and two hours laboratory work daily. 4 credits.

Biology, S. 3-4.—Second half of the course in General Biology, one hour lecture and two hours laboratory work daily. 4 credits.

BUSINESS

Accounting E. I.—First year accounting. Thorough review of Bookkeeping. The operating of complete set of books, starting with individual ownership, through to corporations. Elements of accounting. Monday, 7:30-9:30. 2 credits.

The course in accounting is that of the famous Walton System.

Accounting E. II.—Second year accounting. Advanced accounting, including principles of accounting. Corporation and cost accounting, factory management. Wednesday, 7:30-9:30. 2 credits.

Accounting E. III.—Third year accounting. Friday, 7:30-9:30. 2 credits.

Modern Banking E. I.—The course in money and banking is designed to be a source of general information for business men and students of banking and business. The text book which will be used was written by John Thomas Holdsworth, Ph. D., vice-president of the Bank of Pittsburgh, N. A.; formerly dean of the School of Economics of the University of Pittsburgh. The book is now in use in nearly all of the universities of the United States. It covers the history, principles and practices of money, credit and banking.

Since the book is intended for the general reader as well as the student, controverted points in monetary science have been avoided as far as possible, or, if not avoided, have been pointed out as debatable ground, and the reader has been referred to other works on such questions.

An effort has been made throughout the planning of the course to compress into the smallest space of time consistent with a presentation of the essentials in the history, theory and principles of money, leaving the major part for the discussion of the principles and practices of banking.

The far-reaching change in banking practice effected by the establishment of the Federal Reserve System is given proper thought. Recent banking legislation is thoroughly covered and the growing importance of trade and bankers' acceptances in the banking system is given adequate treatment. Tuesday, 7:30-9:30. 2 credits.

Banking E. II.—For the benefit of those who desire a working knowledge of finance, a course of corporation finance is offered. In connection with this course there will be used a highly regarded college text-book, covering the every day financial business problems, beginning with its inception, during its life and at its termination or reorganization. This book written by Lough is probably the most accepted authority of its kind at the present time.

This course explains how many business failures could be prevented through a proper understanding of the principles and practices of Corporation Finance, and indicates the amount of ignorance that exists, regarding financial management, especially among smaller concerns.

Almost every experienced business man has observed instances where profitable enterprises were half developed and then abandoned for lack of funds, when, in most cases, the whole financial program might have been figured out in advance, thereby turning failure into success.

Roger W. Babson states that forty thousand executives control the destiny of seventy million people. The success of these people, therefore, is directly dependent upon the knowledge and training of the executives who direct them. Thursday, 7:30-9:30. 2 credits.

Business Law E. I.—Preliminary topics. Principles of contract, operation and discharge of contracts.

Particular contracts:

- (a) Sales.
- (b) Bailments.
- (c) Insurance Contracts.
- (d) Credit and Loans.
- (e) Contracts of Guaranty.

Negotiable instruments. Agency. Master and Servant.

First year course. Tuesday, 7:30-9:30. 2 credits each term.

Business Law E. II.—Short review of Business Law I.

Business Associations:

- (a) Partnerships.
- (b) Joint Stock Companies.
- (c) Corporations.

Personal Property.

Real Property:

- (a) Estates in Real Property.
- (b) Land.
- (c) Relative Rights of Owners.
- (d) Transfer.
- (e) Mortgages and Liens.
- (f) Landlord and Tenant.

To this will be added, if time permits, a discussion of the legal aspects of income, transfer and estate taxes. Second year course. Friday, 7:30-9:30. 2 credits each term.

INVESTMENTS

Investments E. I.—In view of the increasing interest in and importance of bond investment, we include here a course which aims to give the prospective business man and investor a grasp of the broad principles underlying the science of investment whereby he may apply for himself the necessary tests for security, marketability and yield. No special study of economics or accounting is necessary.

The course will cover real estate mortgage bonds, government and municipal bonds, corporation bonds; analysis of the financial statements of corporations and municipalities; methods of financing, and methods of investing. Problems will be studied from the point of view of the interests of the investor. Tuesday, 7:30-9:30. 2 credits.

Investments E. II.—See special bulletin: Courses in Business Administration. Friday, 7:30-9:30. 2 credits.

CHEMISTRY

Instruction in general Inorganic Chemistry is given to all students in regular courses. For students of the Science and Premedical courses this instruction is of obligation in their Freshman year, for students of the Arts course in their Sophomore year. The course is designed not merely to familiarize the student with the principles of the science and the descriptive chemistry of the non-metallic and metallic elements, but to constitute an introduction to scientific methods of experimentation, observation and reasoning. Every attempt is, therefore, made to impress upon the student the importance of neatness, accuracy and thoughtfulness in connection with his laboratory practice and to point out rigidly the line of demarkation between the functions of the senses and the intellect in all fields of science.

The instruction in chemical subjects is continued throughout the four years of the Science course, the two years of the Premedical course, and as an elective through two years of the Arts course, and includes Theoretical, Analytical and Organic Chemistry as well as opportunity for elective courses in specialized postgraduate work. Students in the Science course devote, as a rule, more time to these subjects than students in other courses and their work is accordingly somewhat more advanced.

The opportunity for individual research work in the various branches enumerated above is unusually extensive and a private laboratory is well equipped for advanced work of this character.

The aim throughout all the courses of chemical instruction is to teach the student self-reliance, to inculcate habits of accurate thought and work and to afford such a training as will fit him to cope successfully with scientific and technical problems.

Senior Optional Studies in Chemistry.—Students in classes later than the class of 1918 will be allowed to select optional subjects in both terms of their Senior year from the following postgraduate courses: Quantitative Analysis II, a course in technical Metallurgical Analysis; Physical Chemistry, including the Chemistry of Colloids, Chemical Engineering.

The selection of optional subjects must be made with the approval of the head of the Department, and other subjects than those enumerated above may be proposed for acceptance when the student has had the necessary preparation and his schedule of hours permits.

Postgraduate Courses in Chemistry.—In general the requirement for admission to postgraduate courses leading to the degree of M. S. is a recognized degree, either B. A. or B. S. These same courses not leading to a degree may be followed by students not having degrees but possessed of the necessary preliminary instruction as noted under "preparation" in the description of each course.

Undergraduate Courses in Chemistry:

1. Inorganic Chemistry I.
2. Inorganic Chemistry II.
3. Qualitative Analysis II.
4. Quantitative Analysis I.
5. Organic Chemistry I.
6. Physical Chemistry.

1. Inorganic Chemistry I.—Two hours lecture and recitation, two periods of two hours each laboratory work a week for one year. Required in the Arts Course.

This course provides an elementary treatise on the underlying principles and theories of Inorganic Chemistry, adapted for the use of those students who do not intend to follow a scientific course.

Verification of the more important principles enunciated in the lecture room is demanded of the student by the performance of well selected experiments.

Every attempt is made to impress the student with the great importance of neatness, thoughtfulness and accuracy in recording the results of his experimentations.

2. Inorganic Chemistry II.—Three hours lecture or recitation and two periods of two hours each laboratory work a week for one year. Required in the Science, Engineering and Pre-medical courses. Preparation: Vd. Entrance requirements.

This course provides for a review of the fundamental laws and conceptions of chemistry, and, in addition, for the study of velocity of reaction, kinetic molecular theory, solution, electrolytic dissociation theory, the periodic system of the elements, chemical equilibrium, the non-metallic elements and their reactions. The natural families of metals are then studied and especial emphasis laid on the detailed study of the properties of elements and compounds in their relation to the classification afforded by Mendeljeeff's Periodic System. Special stress is laid upon such technical and industrial processes as The Fixation of Atmospheric Nitrogen. The Manufacture of Sulphuric Acid and Sodium Carbonate, The Metallurgy of Iron and Steel, The Chemistry of Photography, The Chemistry of Fertilizers. Several hundred problems are presented for solution. These problems deal with the reduction of gases to standard conditions, chemical equations, thermal equations, gas equations, determination of equivalent, molecular and atomic weights. The laboratory work consists of seventy-five experiments. These experiments include the isolation of the principal non-metallic elements and the formation of their compounds, the determination of approximate atomic weights, the verification of the fundamental Laws of

Chemistry, electrolysis, ionic equilibrium, neutralization, the tests for, and properties of, the metallic elements and their more important compounds. Students are required to construct as a result of personal experimentation an electromotive series of the metals. Monthly presentation of Lecture-Synopses and Laboratory Reports is demanded.

3. Qualitative Analysis II.—One hour lecture and two periods of two and one-half hours each laboratory work for one year. Required in Science course. Optional in Arts course. Preparation: Chemistry 2 or 1.

This course is an attempt, on the experimental side, to train the student of qualitative analysis in careful manipulation and exact methods of procedure such as are commonly employed in quantitative analysis. It is an attempt, on the theoretical side, to make clear to the student the reason for each operation and result and to accustom him to apply to them the laws of chemical equilibrium and the principles relating to the ionization and complex-formation of substances in solution. It is assumed in this course that the student has acquired in his previous course on Inorganic Chemistry, a general knowledge of the mass-action law and of the chemical aspects of the ionic theory. Not only is the educational value of the course broad but it serves as a necessary introduction to the study of quantitative analysis. In addition to the methods for detecting the ordinary basic-constituents as outlined in Chemistry 3, additional methods for identifying the rare metals are considered in this course. Supplementary procedures for the detection of Ammonium; the determination of the State of Oxidation of Mercury, Tin, Iron and Arsenic; the detection of very small quantities of Arsenic and Antimony are also given. In the detection of Acidic constituents a more complete and more instructive system of analysis than that included in Chemistry 3 is presented. Reactions in the Dry way are studied in detail. The conduct of substances when heated in closed and open tubes, on charcoal before the blowpipe with or without solid reagents. Characteristic flame tests and behavior upon fusion with microcosmic salt and borax are also noted. The course is concluded with the presentation of various comprehensive schemes for the complete analysis of any unknown inorganic substance. These schemes are tested by the analysis of unknown minerals, salts, alloys and pigments. At the beginning of every second laboratory exercise class-room conferences are held at which the experiments to be made next are discussed in outline and those made at the previous exercises are reviewed in detail. These conferences are carried on mainly by questioning the individual students and by encouraging them to ask questions as to matters which they do not understand. In addition to these recitations, reports, representing about eighty analyses are demanded.

4. Quantitative Analysis I.—One hour lecture and two periods of two and one-half hours each laboratory work for one year. Required in Science course. Optional in Arts course. Preparation: Chemistry 1, 3 (minimum).

In this course one term is devoted to gravimetric, the other to volumetric analysis. The time is spent upon simple quantitative analyses which are typical of the subdivisions of the subject and afford the best preparation for more advanced work. In place of the simple salts usually selected for analysis approximately pure samples of appropriate minerals or industrial products are substituted. The practical work includes calibration of weights and volumetric apparatus, standardization of acid and alkali solutions, and the determination of the total alkaline strength of soda ash and the acid strength of oxalic acid. Oxidation processes offered are the determination of Iron in Limonite by the Bichromate process, of Chromium in Chrome Iron Ore; of Iron by the Permanganate and Zimmerman-Reinhardt methods, and of the oxidizing power of Pyrolusite. Copper in ores and Antimony in Stibnite are determined by Iodimetric methods; the available Chlorine in Bleaching powder is selected as an example of Chlorimetry. The determination of Silver in an alloy by the Thiocyanate process affords an insight into precipitation methods. The gravimetric determinations embrace measurement of Chlorine in salt, Iron and Sulphur in Ferrous Ammonium Sulphate, Sulphur in Barite, Phosphorus in Apatite. Limestone is analyzed for moisture, insoluble matter and silica, ferric oxide and alumina, calcium, magnesium and carbon dioxide. Lead, iron, zinc and copper are determined in Brass; in this procedure the principles of electrolytic separations are developed and applied.

The theoretical work embraces a discussion of the applications of the theories of solution and equilibrium to quantitative methods and a discussion of alternative methods of procedure in analyzing the specimens presented. Special emphasis is paid to Stoichiometry in the belief that the ability to make the calculations necessary for the interpretation of analytical data is no less important than the manipulative skill necessary to obtain them.

In connection with this course, students may arrange for extra laboratory hours to be spent in the practice of electrochemical methods of analysis.

5. Organic Chemistry I.—Three hours lecture and recitations, two periods of two hours each laboratory a week for one year. Required in Science and Premedical courses. Optional in Arts course. Preparation: Chemistry 1 (minimum).

A course in which the general principles and theories of organic chemistry, the method of preparation and the characteristic reactions of the more important straight chain and cyclic

compounds, such as hydrocarbons, alcohols, phenols, ethers and amines and their related nitrogen compounds are treated in great detail. The lectures are fully illustrated by experiments. In the laboratory the student becomes familiar with the operations and apparatus involved in organic work, such as fractional distillation, extraction crystallization, steam distillation, determination of melting and boiling points, and the like; and with various general methods of preparation, such as etherification, saponification, nitration, sulphonation, reduction and oxidization, diazotization, etc. He prepares in all from twenty to thirty compounds, including products of synthetic and commercial interest. The instruction in this course also includes qualitative tests for all the important elements occurring in organic compounds, and an elementary consideration of the analytic reactions used in the identification of organic substances.

6. Physical Chemistry.—Lectures, recitations and laboratory four hours a week for one year.

Among the subjects discussed are the following: Molecular and atomic weight determinations, the laws of gases, laws of liquids, solutions, vapor pressure laws, solutions of ionized substances, conductance, thermo-chemistry, including heats of reaction and of formation, chemical equilibria, including theory of indicators, rate of reaction. Throughout the course, the application of principles to problems will be emphasized. So far as possible, the laboratory work will be quantitative and designed to show the applications of the laws of Physical Chemistry.

Chemical Engineering—Lectures and recitations three hours per week.

The subject matter of this course covers the use of stoichiometrical principles in industrial operations, such as boilers, producers and other furnaces; application of the laws of flow of heat and flow of fluids to commercial coolers, heat interchangers and pre-heaters. Other topics considered in less detail are evaporation, distillation, air drying, filtration, absorption, crushing and grinding. Throughout the course, great emphasis is laid upon the proper solution of problems illustrating the principles involved.

Postgraduate Courses in Chemistry:

7. Quantitative Analysis II.
8. Organic Chemistry II.
9. History of Chemistry.
10. Chemistry Seminar.

7. Quantitative Analysis II.—Lectures and laboratory, hours by appointment. Required in M. S. course. Substitutes, Chemistry 8, 9. Optional in B. S. sen. Preparation: Chemistry 2, 4, 5.

This course is an extension of Chemistry 5. It is assumed that the student is perfectly familiar with the use of the balance, the principles of volumetric analysis, and stoichiometry and no attempt is made to enlarge upon these subjects. The course, which comprises mainly laboratory work, is intended chiefly to train the student in manipulation. After some preliminary advanced mineral analysis such as the determination of Silica in Silicates, of Potassium and Sodium in Silicates, analysis of Spathic Iron ore, iodometric determination of Copper, and proximate analysis of Coal; the important principles of metallurgical analysis are considered. The sampling and chemical analysis of Iron and Steel, especially the different practical methods actually in use at the various industrial laboratories, are studied and practiced. Under sampling are considered: The importance of proper Sampling, Treatment of polished specimens, Metallographic characteristics of the constituents occurring in iron and steel, the causes of local differences in the chemical composition of Iron and Steel, conditions which make the taking of representative samples difficult, white iron, gray iron, ingot iron and mild steel, wrought iron, sampling in special cases. Under analysis of iron and steel are considered: Determinations of Carbon, Silicon, Manganese, Phosphorus, Arsenic, Sulphur, Copper, Nickel, Cobalt, Chromium, Aluminum, Titanium, Tungsten, Vanadium, Molybdenum, Oxygen and Nitrogen. In many cases the student is offered a choice of method where the principle differs as it is desirable that the student should acquaint himself with each method. This course is not given with the idea of producing specialists along this line, but it is used as an example of the development of rapid, accurate processes for the control of commercial products.

8. Organic Chemistry II.—Lectures and laboratory, hours by appointment. Required in M. S. course. Substitutes, Chemistry, 7, 9. Preparation: Chemistry, 2, 6.

This course is an extension of Chemistry 6. In this course is developed more particularly the connection between structural relations and physical properties, dynamic isomerism, steric hindrance, energy relations in the organic field, and a detailed study of the more important classical synthesis. The facilities of the well-equipped Organic Laboratory of the College are open to properly qualified students for either research work or work in the preparation and reactions of special classes of organic compounds. The kind and amount of work will be varied to meet individual requirements.

9. History of Chemistry.—Preparation: Lectures, for one term. Hours by appointment. Optional in M. S. course.

A detailed study of the history of chemical science, starting with its crude beginnings and following the development step

by step through the alchemistic, iatro and phlogiston periods. In this course historical development of the important theories of Chemistry is also considered. The treatment of the entire subject is carried out along the "cause and effect" historical method, though special attention is given to the life and work of the men who have materially advanced the science by their investigations and work. At the completion of the course an essay based on the study of some important period (or classical memoir) in the history of Chemistry is demanded.

10. Chemistry Seminar.—Weekly meetings throughout the second term. Required in M. S. course.

The object of these conferences is to bring into closer connection and harmony the functions of ultimate and proximate causes as developed in Philosophy and Chemistry respectively, philosophical theories on the Constitution of Matter—Atomic, Dynamic, Hylomorphic—are considered in the light of the very latest theories and discoveries of modern chemistry. Among the particular topics treated may be mentioned the following:

The objective significance of bonds or links as displayed in Organic structural formulae.

Hylomorphism and the Theory of Electrons.

Philosophical significance of Moseley's Atomic Numbers.

Dependence of properties on energy content rather than on Atomic Weight. Illustrated by the changes in character in the atom of Manganese with gain or loss of electrons.

Allotropy; Isomorphism; Isomerism; Characteristic Spectra, etc., etc.

Students are required to prepare and present an original thesis embodying a philosophical criticism of some recent but well tested chemical theory.

Chemistry E. I.—General Inorganic Chemistry. Lectures, recitations and Demonstration. Wednesday and Friday, 7:30-8:45. 3 credits.

Chemistry E. II.—Laboratory work in General Inorganic Chemistry. Two hours or four hours per week. 1 or 2 credits.

Section I.—Afternoons, by appointment, 4:00-6:00.

Section II.—Evenings, by appointment, 7:30-9:30.

Chemistry E. III.—Qualitative Analysis. Four hours lecture and laboratory. 3 credit hours per term.

Section I.—Afternoons, by appointment, 4:00-6:00.

Section II.—Evenings, by appointment, 7:30-9:30.

Chemistry E. IV.—Organic Chemistry, Lectures and recitations. Wednesday and Friday, 7:30-8:45. 3 credit hours per term.

Chemistry E. V.—Organic Chemistry, Laboratory. Two or four hours per week. 1 or 2 credit hours per term.

Sections and hours as in Chemistry E. II.

Chemistry E. VI.—Elementary Quantitative Analysis. Hours by appointment. 3 or 4 credit hours per term.

Chemistry E. VII.—Advanced Quantitative Analysis. Credits and hours as in Chemistry E. VI.

Chemistry E. VIII.—Physical Chemistry. Hours by appointment.

Chemistry E. IX.—Elements of Chemical Engineering. Hours by appointment.

Chemistry E. X.—Chemistry of Food and Nutrition.

This course presents the principles of the chemistry of food and nutrition with special reference to the food requirements of man and the considerations which should underlie our judgment of the nutritive value of foods. The subject matter embraces a consideration of the organic foodstuffs—proteins, carbohydrates and fats—enzymes; metabolism; energy requirements; inorganic food stuffs—iron, calcium, phosphorus, etc.; vitamins, and a study of the nutritive value and economy of the common foods. Hours by appointment.

Chemistry, S. 1-2.—General Inorganic Chemistry, Part I. One hour lecture and two hours laboratory work daily. 4 credits.

Chemistry, S. 3-4.—General Inorganic Chemistry, Part II. (Presupposes S. 1 and S. 2.) One hour lecture and two hours laboratory work daily. 4 credits.

Chemistry, S. 5-6.—Organic Chemistry, Part I. (presupposes a knowledge of General Inorganic Chemistry). One hour lecture and two hours laboratory work daily. 4 credits.

Chemistry, S. 7-8.—Organic Chemistry, Part II. Chemistry S. 5 and S. 6 are presupposed. One hour lecture and two hours laboratory work daily. 4 credits.

Chemistry, S. 9-10.—Qualitative Analysis. One hour lecture and four hours' laboratory work daily. 6 credits.

Chemistry, S. 11.—Quantitative Analysis. One hour lecture and five hours laboratory work daily. 6 credits.

ECONOMICS

Three hours per week for one year.

Principles of Political Economy. Rules and Principles governing the production, exchange and distribution of wealth.

Economics, S. 1.—Principles of Political Economy. 2 credits.

EDUCATION

This elective, offered primarily but not exclusively, to students who wish to qualify themselves for the New York State Regents' College Graduate Certificate, is so arranged that the students electing Pedagogy during their Senior and Junior years may take those subjects in education not already included in the prescribed courses of philosophy so as to fulfill the Regents' requirements for the above mentioned certificate.

As a thorough course in general psychology is required for all Baccalaureate degrees given in this college, the elective course in pedagogy is arranged to provide the additional subjects of the Regents' requirements. In accord with the educational traditions of the Society of Jesus, in the course of Pedagogy at Canisius, especial emphasis will be placed upon the following psychological aspects of education: Training of the imagination; Formation of judgment and of character; Moral Training. The course is distributed through the Junior and Senior years. Opportunities for observation will be provided in Canisius High School and in any of the parochial and public schools of the city that the students may choose. Further inquiries regarding this course should be made of the Dean. The course is registered by the Regents as fulfilling the conditions for an approved department of education. The preparation which will be required for a graduate certificate, is represented by the following courses:

(a) **Psychology, General and Educational.**—Philosophy 1, 2, 5.

(b) **Principles and Method.**—Three hours a week for one year.

(c) **History of Education.**—In the courses of General History the following topics are treated at considerable length: Education in the Middle Ages, Scholasticism and the Universities, The Renaissance, The Reformation and Counter-Reformation. Besides this, one hour a week for two years is devoted to the History of Education.

Education E. I.—Educational Psychology. Monday and Wednesday, 4:30-5:45. See Philosophy E. I.

Education E. II.—History of Education. Tuesday and Thursday, 4:30-5:45. 3 credits each term.

Education E. III.—Principles and Methods of Education. Monday and Wednesday, 4:30-5:45. 3 credits each term.

Education, S. I.—Educational Psychology. 2 credits.

ENGLISH LANGUAGE AND LITERATURE

1. English.—Three hours a week for one year in Freshman class.

(a) Precepts. Principles of literary criticism. Choice of words. Elegance, vigor and variety of expression. The orderly and logical development of thought. Prose, rhythm, style. Principles of narration, description and exposition. Nature of poetry. Poetic diction. Versification. The Epic. A comparative study of the Odyssey, Aeneid and Paradise Lost. Lyric poetry, its various kinds. (Connell, *A Study of Poetry*.)

(b) Authors: Prose—Newman, Ruskin, De Quincey, Hawthorne, Arnold (*Brewster's Studies in Structure and Style*.) Poetry—Selections from Shelly, Wordsworth, Keats, Tennyson (*Palgrave's Golden Treasury*); Milton, *Paradise Lost*, I., II.; Shakespeare, *Julius Caesar*, *Midsummer Night's Dream*.

(c) Composition: One composition in prose or verse to be written each week outside of class. The nature of this composition work will be in keeping with the scope of the class work as outlined in the precepts given above.

(d) History of English Literature: Early English Literature. The Age of Chaucer. The Elizabethan Period. Shakespeare and his Contemporaries. (Brooke's *English Literature*.)

2. English.—Three hours a week for one year in Sophomore class.

(a) Precepts of Oratory. (Coppens, *Oratorical Composition*.)

(b) Rhetorical Analysis of Great Orations:

I. Term—Burke, *American Taxation or Bristol Election*.

II. Term—Burke, *Conciliation with America*.

Webster, Adams and Jefferson.

(c) Authors:

I. Term—Shakespeare, Hamlet (analysis), King Lear (reading.)

Burke, Speech to the Bristol Electors.

Webster, Bunker Hill.

Newman, Second Spring.

Palgrave, Golden Treasury.

II. Term—Shakespeare, Macbeth (analysis.)

Bradley, Oratorical Selections.

Stedman, American Poets.

(d) Composition: Oratorical. Exercises in the application of the precepts of rhetoric. Practice in the drawing of briefs.

(e) History of English Literature, from the death of Elizabeth to the Victorian Period (Brooke's English Literature, cc. X-V.)

3. English.—Three hours a week for one year in Junior class of Science course.

(a) Precepts—The Drama. Laws and Technique.

(b) Authors—Shakespeare's Plays. Interpretation, Critical and Comparative Study.

(c) Composition. One composition every week or fortnight. Essays, Critical and Philosophical.

4. English.—Journalism I. The Modern Newspaper; its functions and make-up; news and news-values; the gathering and writing of news; the structure and style of news stories; copy-editing and proof-reading.

5. English.—Journalism II. Three hours a week for one year.

Newspaper Editing: Copy-reading, copy-editing, proof-reading. Head-line writing. Newspaper make-up.

Editorial and feature writing: Editorial interpretation and comment. Editorial purposes. Material for editorials. Style of editorials. The editorial page. The field for special articles. Subjects and material types of articles. Structure and style.

English, E. I.—Journalism I.—The modern Newspaper; its functions and make-up; news and news values; the gathering and writing of news; the structure and style of news stories; copy-editing and proof-reading. Wednesday and Friday, 7:30-8:45. 3 credits each term.

N. B.—This course will include special lectures by prominent newspaper men.

English, E. II.—Oratorical Composition. The arrangement and writing of a speech. A course highly recommended to lawyers and all professional and business men. Monday and Wednesday, 7:30-8:45. 3 credit hours per term.

English, E. III.—(a) Poetry: Its nature and value. Appreciation of poetry. (b) The short story. Tuesday and Thursday, 4:30-5:45. 3 credits each term.

English E. IV.—History of English Literature. Monday and Friday, 4:30-5:45. 3 credits each term.

English, E. V.—(a) The Short Story; its history, materials, theme, plot, etc. (b) Shakespeare; Merchant of Venice; Macbeth. Saturday, 1:30-4:00. 3 credits each term.

English, S. 2.—The English Novel. Study of the development of the English novel from the Eighteenth Century to the present time, with emphasis upon the work of Jane Austen, Scott, Thackeray, Hardy and Conrad. Reports and much collateral reading. 2 credits.

English, S. 3.—Shakespeare. Study, with literary and philological commentary, of three plays: Hamlet, Lear, Romeo and Juliet. Shakespeare's life; the Elizabethan theater; development of Shakespeare as a dramatist. Lectures and reports. Text: The Oxford Shakespeare, edited by W. J. Craig. 2 credits.

English, S. 4.—American Literature. 2 credits.

English, S. 5.—English Literature. 2 credits. S. 4 and S. 5 will cover the readings prescribed and suggested for the High Schools, and have been arranged especially for those teaching these subjects in High Schools, and for those who desire to take the examinations for Life State Certificate.

English, S. 6.—English Composition. This course will cover in a more advanced way, the principles and practice of composition generally required in High Schools. 2 credits.

English, S. 8.—Dramatic Reviews of the following, by Mr. Frederick Paulding, well-known actor:

1. **"Laughter and Poetry in the American Short Story."**
Washington Irving's legend of the Catskills, "Rip Van Winkle."
Reviewed by his Great-grand Nephew.
2. **"The Power and Appeal of Great Drama."**
Bulwer-Lytton's historical play, "Richelieu."
3. **"The Contrasts of Anatole France and Ernest Hello."**
Including Anatole France's exquisite story,
"Le Jongleur de Notre Dame."

4. **"Ethics in Modern Drama. (Spain.)"**

Jose Echegaray's magnificent play on the evils of gossip,
"The Great Galeoto."

5. **"Americanism in the Native Short Story."**

O. Henry and Bret Harte, including Bret Harte's famous story,
"How Santa Claus Came to Simpson's Bar."

TIME: August 1, 2, 3, 4 and 5, at 4:00 P. M.

EVIDENCES OF RELIGION

1. **Evidences of Religion.**—Freshman Year. One hour and one-half a week.

First Term—Eschatology. Christian Morality. The Theological Virtues: Faith, Hope and Charity. (Wilmers, pp. 385-436.)

Second Term—The Virtue of Religion. Divine Worship. Christian Duties. Christian Perfection. (Wilmers, pp. 436-494.)

2. **Evidences of Religion.**—Sophomore Year. One hour and one-half a week.

First Term—Grace. The Sacraments in General. Baptism. Confirmation. The Holy Eucharist. (Wilmers, pp. 279-341.)

Second Term—The Mass. Penance. Extreme Unction. Holy Orders. Matrimony. The Church as a Means of Salvation. (Wilmers, pp. 341-385.)

3. **Evidences of Religion.**—Junior Year. One hour and one-half a week.

First Term—Revelation, Natural and Supernatural, Miracles and Prophecies. The Primitive, Patriarchal and Mosaic Revelation. The Christian Revelation. The Institution and End of the Church. (Wilmers, pp. 1-77.)

Second Term—The Constitution of the Church. St. Peter given the Primacy not only of honor, but also of jurisdiction. The Pope, the successor of St. Peter. The Infallibility of the Pope. The Marks of the Church. The teaching office of the Church. Sources of the Church's teaching: Holy Scripture. Tradition. The Rule of Faith. (Wilmers, pp. 77-152.)

4. **Evidences of Religion.**—Senior Year. One hour and one-half a week.

First Term—The Existence and the Nature of God. The Divine Attributes. The Unity of God. The Blessed Trinity. The Creation of the World. (Wilmers, pp. 152-219.)

Second Term—Creation and Fall of Man. The Incarnation. The Redemption. (Wilmers, pp. 219-279.)

FRENCH

French I.—Intended for beginners and conducted almost entirely according to the Direct Method. Aim is to teach pupil to speak French clearly and fluently and to grasp the essentials of grammar necessary to the expression of ideas.

Text—"France" by Camerlynck.

Reader—Lavissee's *Histoire de France*.

French II.—Review of regular verbs. Reflexive neuter, impersonal verbs, syntax, corresponding exercises in composition. French conversation based on the text is conducted throughout the course. Exercises in letter-writing.

Grammar—Chardenal.

Reading—Halévy, "L'Abbé Constantin;" Molière, "Le Bourgeois Gentilhomme;" Van Buren, "Contes du Pays de Merlin;" Daudet, "Choix de Contes;" Labiche et Martin-La Poudre aux Yeux.

French III.—Review of irregular verbs and syntax; French Composition.

Text—Carnahan's Review Grammar and Composition Book.

Reading and criticism of:

Merimée-Colomba.

Molière-L'Avare.

Beaumarchais-Barbier de Seville.

Conversation—based on text.

French IV.—

1. *Histoire de la Littérature Française*. (Duval-Heath.)
 - (a) First Term—The 17th Century.
 - (b) Second Term—The 18th Century.
2. Reading and literary criticism of two or more of the following:
 - (a) Racine—*Athalie*, *Esther*.
 - (b) Corneille—*Le Cid*, *Polyeucte*.
 - (c) Rostand—*Cyrano de Bergerac*.
3. Composition—Original critiques of authors studied.

French, E. I.—Intermediate French. Wednesday and Friday, 4:30-5:45. 3 credit hours each term.

French E. II.—Elementary lessons in French Grammar and Reading. Tuesday and Thursday, 7:30-8:45. 3 credits each term.

French, E. III.—Advanced French Course. Hours by appointment.

- I. Review of syntax and irregular verbs.
Imitative and original composition.
- II. Reading and critical study of:
Merimée-Colomba.
Hémon—Maria Chapdelaine.
About—Roi des Montagnes.
- III. Home reading of at least two of the following:
Bazin—Le Blé qui lève.
De Bernard—L'Anneau d'Argent.
Chateaubriand—Le Dernier des Abencerrages
Daudet—Tartarin de Tarascon.
Dumas—Comte de Monte Cristo.
Loti—Pêcheur d'Islande.
Malot—Sans Famille.
Sand, G.—La Mare au Diable.

French E. IV.—Postgraduate course. Hours by appointment.

I. Histoire de la Littérature Française:

1. First Term—Le Classicisme.
2. Second Term—Le Romantisme.
References—Duval, Lanson, Konta, Wright.
Questions to be answered in French.

II. Authors:

1. Corneille. (a) Le Cid
(b) Horace
(c) Polyeucte
2. Molière. (a) L'Avare
(b) Le Bourgeois Gentilhomme
(c) Le Malade Imaginaire
(d) Les Femmes Savantes
(e) Les Précieuses Ridicules
3. Racine. (a) Athalie
(b) Esther
(c) Phèdre
(d) Andromaque
(e) Britannicus
(f) Iphigénie
4. Bossuet—Oraisons funèbres.
5. Fénelon—Télémaque.
6. Chateaubriand—Le Génie du Christianisme.
7. Rostand—Cyrano de Bergerac.
8. Hello—Selected Essays.
9. Contes Français. (Holt.)
10. Longer French Poems. (Holt.)

III. The Examination will include:

1. At least six of the foregoing works.
 2. Translation into English.
 3. French Composition based on the French Text.
 4. Questions in grammar, philosophy and erudition.
 5. Critical questions on the French drama.
 6. Comparison of the classical dramatists with the modern.
 7. Brief answers to be given orally in French.
 8. Evidence that the candidate can understand easy French conversation.
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French. S. 1.—Elementary lessons in French grammar and reading. The article, noun, pronoun, adjective, auxiliary verbs, regular conjugations, corresponding exercises in composition. 2 credits.

French. S. 2.—Intermediate French. Review of regular verbs. Reflexive neuter, impersonal verbs, syntax, corresponding exercises in composition. Exercises in letter-writing. 2 credits.

French. S. 3.—Advanced French. 2 credits.

GEOLOGY

Geology.—Two hours a week for one term.

Physiographic: General features of the earth's surface. **Structural:** Constitution of rocks, terrains, classification of the Animal and Vegetable Kingdoms. **Dynamic:** The formative, protective and destructive effects of life, chemical action of air and water, mechanical effects of air and water, sources and effects of heat, crustal movements. **Historic:** Archæan, Paleozoic, Mesozoic, Cenozoic.

GERMAN

German 1.—For beginners. Three hours a week.

During this course the elements of German grammar will be covered.

German 2.—Intermediate German. Three hours a week.
Prerequisite German I or equivalent.

This course is adapted to comply with regulations for pre-medical students. Special scientific subjects will be treated and special work will be assigned to enable students to translate and understand articles treating on scientific topics.

Text-book: Bacon, "German Composition."

Rapid review of strong verbs—prepositions governing two cases. Inverted and transposed order. Prefixes. Use of tenses. Formation of Words—Compound Words—Participial Construction. Composition and discussion on scientific subjects known to the students.

German 3.—Reading in German Literature. Two hours a week (credit for three hours.)

Prerequisite German 2 or equivalent.

Extensive side reading is required.

During the first term stress is laid on free use of language, oral and written composition from classics.

Each student will have special work assigned and is required to give a good synopsis in German.

During the second term, a brief survey in German literature will be given.

German 4.—History of German Literature. First term: The early period till Reformation. Second term: Reformation till modern times. Considerable amount of side reading required. Two lectures a week; 3 credits per term.

German 5.—Scientific German I. Two hours a week (credit for three hours.)

Prerequisites: Two years of German. Oral and written compositions on scientific subjects. Recommended to all science students.

German 6.—Scientific German II. Two hours a week (credit for three hours.) Reading and translation of scientific articles. Special attention given to chemical German. Scientific terminology of Chemical German. Recommended to chemists and science students.

German, E. I.—Intermediate German. Wednesday and Friday, 4:30-5.45. 3 credits each term.

German, E. II.—Readings from German Literature. Tuesday and Thursday, 7:30-8.45. 3 credits each term.

German, E. III.—History of German Literature. Hours by appointment.

German, S. 1.—Intermediate German. Rapid review of strong verbs—prepositions governing two cases. Inverted and transposed order. Prefixes. Use of tenses. Formation of words—compound words—participial construction. Composition and discussion on scientific subjects known to the students. 2 credits.

German, S. 2.—Readings from German Literature. 2 credits.

German, S. 3.—History of German Literature. 2 credits.

GREEK

I. Greek.—Three hours a week for one year.

1. Grammar—Review of Greek moods and tenses. Prosody and versification for the structure of epic and tragic verse.

2. Authors: Plato, *Apology*; Homer, *Odyssey*; Herodotus, (selections for sight reading); Demosthenes, *Olynthiacs*; Euripides, *Hecuba*; Herodotus, (selections for sight reading.)

3. Composition—Written exercises once a week, in imitation of Plato and Demosthenes.

II. Greek.—Three hours a week for one year.

1. Authors: Demosthenes, *First Philippic*; or *Æschylus*, *Prometheus Bound*; Sophocles, *Ædipus Tyrannus*; Thucydides, *Book II* (selections); Demosthenes, *De Corona*; Thucydides, *Book II* (continued.)

2. Composition—Written exercise once a week.

Greek, S. 1.—Elementary lessons in Greek Grammar and Reading. 2 credits.

Greek, S. 2.—Xenophon's *Anabasis*. 2 credits.

HISTORY

1. General European History.—Two hours a week for one year.

The first Teutonic invasions. The fall of the Western Empire. The kingdoms of the Franks, Ostrogoths and Lombards. The Arabians. The establishment of the Papal States. Church and State. Carolingians, Northmen, Norman exodus. Lay investiture. Crusades. (Guggenberger's *General History*, Vol I.)

2. General European History.—Two hours a week for one year.

The Protestant Revolt; The Great Western Schism, The Hundred Years' War, Wars of the Roses, Consolidation of the European Monarchies. The Reformation in Germany, in England and Scotland. The Catholic Revival. The wars of the Reformation; Huguenot Wars, Mary and Elizabeth, The Thirty Years' War, the Puritan revolt. Age of Louis XIV. (Guggenberger, Vol. II.)

3. General European History.—Two hours a week for one year.

Causes of the Social Revolution: The Hanoverian Succession, Making of Russia, Wars of the Austrian Succession, The

American Colonies, Seven Years' War, Division of Poland. American War of Independence. The French Revolution. Era of Napoleon I. Catholic Emancipation. European Revolution. (Guggenberger, Vol. III.)

History, E. I.—The period of the Renaissance. Monday and Wednesday, 4:30-5:45. 3 credits each term.

History, S. 1.—The crusades. 2 credits.

HISTORY OF PHILOSOPHY

History of Philosophy.—Senior Year. Two hours a week.

First Term: Oriental Philosophy: The Sacred Books of the Chinese. The Vedas and other productions of Indian Literature. The Philosophy of Vedanta, of Samkhya and Yoga, of Nyaya and Vaishesika. Philosophical Theories of Egypt and of Western Asia.

Greek Philosophy: The Ionic School. The Eleatics. The Sophists. Socrates and the Socrates Schools. Plato. Aristotle. The Epicureans. The Stoics. The Sceptics.

Catholic Philosophy: The Gnostics. The Neo-Platonists. The Fathers of the Church.

Scholastic Philosophy: Boethius, St. John of Damascus. Érigena. Avicenna. Averroes. Alexander of Hales. St. Bonaventure. Albertus Magnus. St. Thomas Aquinas. Roger Bacon. Duns Scotus. Raymundus Lullus. William of Cusa. The Mystics. The Revival of Platonism, of Aristotelianism. The Secular Philosophers. The Political Philosophers.

Second Term: Modern Philosophy: Descartes and His Followers. Malebranche. Spinoza. Bayle. Cudworth. Locke. Hume. Condillac. Helvetius. Voltaire. The Encyclopaedists. Leibnitz. Wolff. Berkeley. Rousseau. The Scottish School. The Transcendentalists: Kant, Fichte, Schelling, and their Schools of Thought. Herbart and Schopenhauer, Krause and Hegel. The Non-Kantians. Von Hartmann. Trendelenburg. Lotze. Current Philosophical Theories. Neo-Scholastics. Thomistic Philosophy under Leo XIII.

ITALIAN

Italian, E. I.—Introduction to the Italian Language—The purpose of this course is to provide an elementary knowledge of Italian for the study of Dante and other Italian masterpieces, but the course may be taken independently of such purpose. A course in Dante will be given during the second semester. Wednesday and Friday, 7:30-8:45. 3 credits.

Italian, E. II.—Advanced Italian with readings in Dante, etc. Tuesday and Thursday, 4:30-5:45. 3 credits.

LATIN

I.—Latin—Three hours a week for one year.

1. Authors: Virgil, Aeneid; Horace, Ars Poetica; Cicero, Pro Archia; Livy, selections for translation and sight reading; Horace, Odes (selected); Cicero, Pro Marcello, Second Philippic or De Signis; Livy, (as above.)

2. Composition—Principles of Latin style. Latin prosody and versification with special reference to Latin lyric metres. Prose composition twice a week; verse once a week.

II. Latin—Three hours a week for one year.

1. Authors: Cicero, Pro Lege Manilia; Horace, Epodes, Satires, Epistles (selected); Tacitus, Agricola or Germania; Cicero, Pro Milone, Pro Ligario; Juvenal, Satires (selected); Tacitus, Annals, Book I.

2. Composition: Oratorical prose composition and occasionally an exercise in Latin verse.

Latin, E. I.—Selected parts from Cicero, with lessons in Etymology and Syntax. Monday and Wednesday, 4:30-5:45. 3 credit hours each term.

Latin, E. II.—Advanced course in Latin Literature. Saturday, 9:00-12:00 (with recess.) 3 credit hours each term.

Latin, E. III.—Elementary and Intermediate Latin Composition. Tuesday and Thursday, 7:30-8:45. 3 credits each term.

Latin, E. IV.—Advanced Latin Composition. Friday, 4:20-6:00. 2 credits.

Latin, S. 1.—Elementary Latin. A rapid review course of the first year Latin.

Latin, S. 5.—Latin Syntax and Composition. A thorough explanation of the principles of Latin Syntax and practice. 2 credits.

Latin, S. 6.—Cicero and Virgil. 2 credits.

Latin, S. 7.—Cicero's Pro Milone. 2 credits.

Latin, S. 8.—Catalinarian speeches. 2 credits.

ELEMENTARY LAW

Law in General, Its Nature and Origin—The moral obligation of law, its source and limitations. The legislative power, its subject and exercise.

The Civil Law of Rome—Common Law and Equity in England. Methods and procedure. Their modifications in the United States. The code. Civil and criminal law.

The Right of Private Property—Estates in real property. Real estate in real property and personal estates in real property. Title by gift and by contract. Agency. Partnership.

Private Wrongs—Proceedings in an action at law. Evidence. Equitable remedies. Crimes. Degrees of Crime. Relation of criminal actor to criminal act. Criminal procedure. Nature and function of a State. Subjects and their relations to the State. Text-book: Robinson, Elementary Law.

One hour a week for a year, obligatory in Senior of A. B. and B. S. courses. Four additional hours every week, open to students who intend to take up the study of law after graduation.

MATHEMATICS

1. Mathematics—Four hours a week for one term.

Plane Trigonometry with its application to practical Surveying and Elementary Navigation. (Wentworth.)

2. Mathematics—Four hours a week for one term.

Analytical Geometry, loci and equations, the straight line, the circle, parabola, ellipse, hyperbola; general discussion of the equation of the second degree.

3. Mathematics—Four hours a week for one year.

(a) Spherical Trigonometry.

(b) Calculus: Integral and Differential.

Mathematics, E. I.—Intermediate Algebra. 3 credits each term.

Section I.—Tuesday and Thursday, 4:30-5:45.

Section II.—Saturday, 9:30-12:00.

Mathematics, E. II.—Advanced Algebra. Monday and Wednesday, 7:30-8:45. 3 credits.

Mathematics, E. III.—Trigonometry. Saturday, 1:30-4:00. 3 credits.

Mathematics, E. IV.—Solid Geometry. Friday 3:45-6:00. 3 credits.

Algebra, S. 2.—A rapid review course in Intermediate Algebra. 2 credits.

Plane Geometry, S. 4.—A rapid review course. 2 credits.

Trigonometry, S. 6.—2 credits.

Algebra, S. 7.—Advanced Algebra. 2 credits.

Analytical Geometry, S. 8.—2 credits.

Calculus, S. 9.—Differential. 2 credits.

MECHANICAL DRAWING

Mechanical Drawing; Descriptive Geometry—Hours to be arranged with the professor.

The following course is a most desirable one for B. S. students and those preparing for Technical Institutes. It embraces a knowledge of the elements of mechanical drawing and descriptive geometry and their application. The course requires three years for its completion. The subjects treated are:

First Year: Use and Care of Instruments, Applied Geometry, Lettering, Orthographical Projection, Developed Surfaces and Intersections, Pictorial Representation, Working Drawings.

Second Year: Descriptive Geometry, Technical Sketching, Map and Topographical Drawing, Duplication and Drawing for Reproduction, Notes on Commercial Practice, Elements of Machine Design.

Third Year: Principles of Applied Mechanics, Structural Drawing, Drafting-room Practice in Plane and Topographical Surveying.

Text and Reference Books: Engineering Drawing, French; Descriptive Geometry, Blassing and Darling; Plane Surveying, Phillips; Mechanism, Dunkerley.

MUSIC

Music, S. I.—Normal work on the course given to children in the First Year.

First Year: During this year there are daily exercises in placing the voice and in focusing the note in order to obtain a pure quality. The intervals studied are those of the major scale, the tonic and dominant chords and their inversions. The natural movement or tendencies of the tones are emphasized as a preparation for the study of harmony. The ear is trained through musical dictation on the same intervals. The children are taught to observe the construction of phrases—repetitions, imitations,

etc.—and to improvise phrases of their own. They are given daily rhythmic exercises in 2-4 and 3-4 time. Numerical notation is used throughout. Towards its close the children are introduced to staff notation with the C clef—one hour daily. 2 credits.

Music, S. II.—Second Year: The vocal exercises carry the placing of the voice through all the vowel sounds and further cultivate their vocal quality. The intervals studied are those of the minor scale developed from its relation to the major, the three principal major chords and the three principal minor chords with their inversions, also thirds, fourths and fifths. The ear training covers these same intervals. The study of musical form is continued, emphasizing contrasts and likenesses, sequences, etc., and the children's compositions become more mature. In rhythm they study the divided beat, rests and syncopations. The numerical notation is used throughout the year for the study of all new problems. Two new positions of the C clef on the staff are studied—one hour daily. 2 credits.

Music, S. III.—Third Year: The vocal exercises continue the cultivation of a pure vocal quality and develop flexibility with crescendo and diminuendo, and breath control. All intervals, major and minor, augmented and diminished are studied during the year, also modulations into related keys and the chromatic scale. The children are encouraged to write original melodies. The numerical notation continues to be used for the study of all new problems. The staff is studied with C clef in three new positions and with the modern key signature. Toward the end of the year the children are made familiar with all the key signatures of modern music—one hour daily. 2 credits.

PHILOSOPHY

1. Formal Logic or Dialectics—One term, three hours a week.

Nature of Logic. Function and Value of Logic. Intellectual Perception; division of ideas and terms. Definition and division. Nature of judgment; judgment and proposition. Division of judgments and propositions. Proportion and its elements; types of judgment; negation. The reasoning process. Different forms and kinds of argumentation. Inference, its nature; what it implies concerning experience; method and inference; inference and system; deductive inferences; analysis and synthesis. Deduction, kinds and their values; syllogism and its laws and form. Rules of the simple categorical syllogism, conditional and disjunctive syllogism; dilemmas and fallacies. Induction; canons of induction; fallacies of induction.

2. Applied Logic. Logical Truth and Certainty—One term, three hours a week.

Human certainty vindicated against skeptics. The three fundamental truths.

The sources of certainty: Experience, internal (consciousness) and external (outer senses); Testimony of the senses. Perception and the interpretation of Sensation. Illusion and hallucinations. Historical testimony. Refutation of cosmic idealism. Nature and value of universal ideas. Concept, its nature and processes involved; function in the process of thinking. Reasoning as a means of knowledge. Induction and its basis. Objective evidence, the universal criterion of truth. False criteria. Necessity and freedom of assent.

3. General Metaphysics, Ontology—One term, three hours a week.

The concept of being. Analogy of being. Negation of being. Knowledge of essence possible. Possibility, intrinsic and extrinsic; the ultimate source of each. Attributes of being; Unity, truth, goodness.

The concepts of substance and accident: their division. Hypostasis and person. Quantity, quality, relation.

Principle and cause: divisions of cause; the principle of causality. Perfection of being. The finite and the infinite; the necessary and contingent. Order and beauty.

4. Cosmology—One term, three hours a week.

Origin of the world. Materialism, Pantheism, Creation and age of the world. The laws of nature. Miracles. Constitution of bodies. The dynamic, atomic and hylomorphic theories compared.

5. Psychology—One term, three hours a week.

(a) Empirical Psychology: Sensuous life. Nature of sensation. Properties of sensation, quality, intensity, duration. Physical, physiological, psychical changes in sensation. Cognitive character of sensation. Sensation and perception. Refutation of physiological idealism. Scholastic doctrine of sense perception. Development of sense perception. Education of the senses. Imagination. Memory. Sensuous appetency and movement.

(b) Rational Psychology: The human intellect; essentially different from sense; its spiritual nature; its operations. Origin of ideas; erroneous theories; scholastic doctrine. Judgment and reasoning. Attention and apperception. Development of intellectual cognition. Growth of the knowledge of self; unity, continuity, discontinuity of consciousness. Genesis of the ideas of substance, accident, cause, the infinite, space, time.—Rational ap-

petency. Habit. Character. Free-will and determinism. Emotions.—Nature of the human soul; its substantiality, simplicity and spirituality. Unity of the soul. Immortality of the soul. Soul and body.

6. Natural Theology—One term, three hours a week.

The existence of God demonstrated. Atheism.

The essence of God. His infinite perfection, simplicity, unity. Pantheism refuted. God's immutability, immensity, eternity.

The divine intellect and the divine will. The moral attributes of God. The power and providence of God. (For reference, Boedder's *Theologia Naturalis*.)

7. Ethics—One year, three hours a week.

I. General Ethics: The moral agent and the moral act. The ultimate end of man. Refutation of Hedonism and Utilitarianism. The end of the present life.

Difference between moral good and evil. The true norm of morality; false theories. Virtue and vice; merit and demerit.

The natural law; its existence, its properties, its sanction. Refutation of Kant's categorical imperative. Positive law based on the natural law. Properties of positive law.

Conscience: Its binding force; rules governing it. Rights; nature and division of rights; subject of rights.

II. Applied Ethics: (a) Individual rights and duties; to God; necessity of religion; to self, immortality of suicide; to others, charity and justice.

The right of freedom of conscience; of free self-culture; of self-defense.

(b) Right of private property. Modes of acquiring property. Communism. Socialism.

Sociology—Society in general; nature and constituent elements of society; social activity.

Applied Sociology—The Economic Life. Capital and Labor. Standard of Living. Destitution. Economic Remedies. Trade Unions. Co-operation. Profit-Sharing. Minimum Wage. Socialism. Syndicalism. The Growth of Population. Eugenics. Birth Control. Family and Marriage. Divorce. The Child. Feminism. Recreation. Education and Religion.

Philosophy, E. I.—Course in Rational Psychology. The human intellect; its spiritual nature; its operations. Judgment and reasoning. Attention and apperception. Development of intellectual cognition. Rational appetency. Habit. Character. Free-

will and determinism. Emotions. Nature of the human soul. Immortality of the soul. Soul and body. Monday and Wednesday, 4:30-5:45. 3 credit hours each term.

Philosophy, E. II.—1 Formal Logic or Dialectics. Nature of Logic. Function and Value of Logic. Intellectual Perception; division of ideas and terms. Definition and division. Nature of judgment; judgment and proposition. Division of judgments and propositions. Proportion and its elements; types of judgment; negation. The reasoning process. Different forms and kinds of argumentation. Inference, its nature; what it implies concerning experience; method and inference; inference and system; deductive inferences; analysis and synthesis. Deduction, kinds and their values; syllogism and its laws and form. Rules of the simple categorical syllogism, conditional and disjunctive syllogism; dilemmas and fallacies. Induction; canons of induction; fallacies of induction.

2. Applied Logic. Logical Truth and Certainty—Human certainty vindicated against skeptics. The three fundamental truths.

The sources of certainty: experience, internal (consciousness) and external (outer senses); Testimony of the senses. Perception and the interpretation of Sensation. Illusion and hallucinations. Historical testimony. Refutation of cosmic idealism. Nature and value of universal ideas. Concept, its nature and processes involved; function in the process of thinking. Reasoning as a means of knowledge. Induction and its basis. Objective evidence, the universal criterion of truth. False criteria. Necessity and freedom of assent. Tuesday and Thursday, 7:30-8:45. 3 credits each term.

Philosophy, E. III.—General and Special Ethics. Saturday A. M. 3 credits each term.

Education, S. 1.—Educational Psychology. 2 credits.

Philosophy, S. 2.—A course in applied Ethics. 2 credits.

Philosophy, S. 3.—Special questions in Logic and Cosmology. 2 credits.

PHYSICS

Physics, I.—(a) Lectures and recitations, two hours per week. Required in Sophomore Arts and Freshman Science.

A general course in the fundamentals of physics, comprising treatises on the mechanics of solids, the mechanics of fluids and wave motion. This course is intended to supply the ground work

on which the subjects of sound, light, heat, magnetism and electricity are built up in the second year. A scientific method of thought is inculcated in the lectures, and precision of concept and expression are demanded in the recitation. The treatment of the matter is mathematical when branches no higher than trigonometry and analytical geometry are required by the problems. Lecture notes must be presented for approval each month.

Physics, I.—(b) Laboratory, two hours per week. Required of Freshman Science.

A course complementary to Physics I (a), in which the theories and laws presented in the lectures are subjected to experiment. The work is, of course, quantitative and a numerical measure of the student's accuracy is required in each experiment. Much of the first term is taken up with measurements of the more simple types and with practice in the use of precision instruments such as the micrometer caliper, the micrometer microscope, optical lever, cathetometer, analytical balance, etc., while throughout the year the experimental work follows closely upon the lecture work. A few lectures are given in the beginning of the year on precision measurements. Special form reports are required for every experiment and in these careful records and accurate reduction of data are closely scrutinized.

The work includes such problems as the measurement of "g" by the falling fork method, the Kater pendulum, demonstration of the laws of the composition and resolution of forces, tests on the modulus of elasticity in tension, torsion and flexure, determination of specific gravity by various methods, comparison of viscosities, cohesion and surface tension of liquids, etc.

Physics, II.—(a) Lectures and recitations, three hours per week. Required in Junior Arts and Sophomore Science.

Sound, Light, Heat and Electricity are treated in this course with the same aims as those stated for Physics I (a). The lectures are visualized as much as possible by demonstration, lantern slide and motion picture, an unusually complete cabinet, a new cinematograph of the most modern type and a departmental motor generator set supplying all the necessary apparatus and power. In accord with the object of the B. S. course, the subject matter is treated from the viewpoint of pure science rather than of applied science, leaving the more technical phases to later specialized study.

Lecture notes must be presented for approval each month.

Physics II.—(b) Laboratory, four hours per week. Required of Sophomore Science.

This course has the same relation to Physics II (a) as Physics I (b) has to Physics I (a). The aims and the methods are the

same, thus providing a complete, consistent course in experimental Physics.

The student, provided with apparatus of the latest design, is given the opportunity of studying the most up-to-date methods of physical measurement in the branches of sound, light, heat, magnetism and electricity. Special form reports are required for each experiment. Clear, precise records, together with accurate reduction of data, are the chief requisites for approval.

Physics II.—(c) Laboratory, four hours per week. Required of Junior Arts.

This course is a compendium of Physics I (b) and Physics II (b) comprising all the more fundamental and the more important experiments of both. The same methods are pursued aiming, however, at a general knowledge of physics measurement and providing opportunities for a shorter training in manipulation and quantitative study of physical phenomena.

Physics III.—Laboratory, five hours per week. Required of Junior Science.

For a deeper study of physical phenomena and a more detailed course in modern methods, including many of those now in use in commercial testing laboratories Physics III is offered. Light, Heat and Electrical measurements are chiefly insisted on, although a few determinations in the province of Mechanics and Sound are also presented.

Members of this course must have completed Physics I (b) and Physics II (b). The student is required to apply his previous knowledge and is initiated into research methods.

Physics IV.—Lectures and recitations, three hours per week. Laboratory, four hours per week. Required in the Premedical course.

A one year course of college grade in General Physics, arranged particularly for the members of the premedical classes.

Physics, E. I.—A course in General Physics, Part I, including Mechanics, Hydrostatics, Sound.

Part II, including Heat, Light and Electricity. Saturday, 1:30-3:45. 3 credits each term.

Physics, E. II.—Laboratory Physics. Saturday, 4:00-6:00. 1 credit each term.

Additional Laboratory hours by appointment.

Physics, S. 1-2.—A course in General Physics, Part I, including Mechanics, Hydrostatics, Sound. One hour lecture and two hours laboratory work daily. 4 credits.

Physics, S. 3-4.—General Physics, Part II, including Heat, Light and Electricity. One hour lecture and two hours laboratory work daily. 4 credits.

SOCIAL SCIENCE

Ethical Basis of Social Service—Principles underlying all work in the fields of Social Service. Tuesday and Thursday, 7:30-8:45. 3 credits each term.

SPANISH

Spanish I.—Elementary course, three hours per week for one year. Spanish pronunciation; useful vocabulary, the essentials of grammar and reading of about 100 to 200 pages of matter. Ear training and ability to converse and to think in Spanish emphasized.

Spanish II.—Intermediate Spanish, three hours per week for one year. Reading of 300 to 400 pages of Spanish text for appreciation and as basis for themes and discussions with systematic study of advanced grammar.

Spanish III.—Advanced Spanish, three hours per week for one year. Reading from standard Spanish authors and current periodicals. Also the Spanish of commerce, its vocabulary, forms and usages. Spanish commercial correspondence and business interviews.

Spanish, E. I.—Elementary Spanish—Monday and Wednesday, 7:30-8:45. 3 credits.

Spanish, E. II.—Advanced Spanish—Tuesday and Thursday, 4:30-5:45. 3 credits.

Spanish, E. III.—Intermediate Spanish. Saturday afternoon, 1:30-4:00. 3 credits each term.

Spanish, S. 1.—Elementary course; Spanish pronunciation, useful vocabulary, realia, reading and conversation. The essentials of grammar taught inductively, with drill on important matters. 2 credits.

Spanish, S. 2.—Contemporary Spanish Literature. Novels, dramas and poetry of leading modern Spanish and South American authors. Reading and report-writing, lectures and conversation.

The works of Rubén Darío, José Santos Chocante, Ricardo Palma, Manuel Ugarte, F. A. Icaza, Rufino Blanco-Fombona, Andrés Bello, Pío Baroja, G. Martinez Sierra, Ricardo Leon, V. Blasco-Ibañez, and Jacinto Benavente are easier to read and more interesting to the average American student than those of the "Golden Ages." Their vocabulary and constructions are more useful for modern social and commercial intercourse. Their comparative neglect is a hindrance to a proper understanding of, and the development of satisfactory relations with, the twenty rapidly developing Spanish-speaking countries. 2 credits.

Fifty-second Annual Commencement
of

Canisius College
Buffalo, N. Y.

College Lawn, Monday Afternoon, June 19, 1922
at three o'clock



P R O G R A M

RT. REV. MSGR. NELSON H. BAKER, D.D., LL.D.
Presiding

OVERTURE "Beautiful Galatea".....*Franz von Suppé*

ORATION "The Disarmament of the Heart"
FRANCIS M. DOOLEY

ORATION "The Danger in Centralization of Government"
MARTIN G. PHILLIPS, B. A.

Conferring of Degrees

REV. M. J. AHERN, S. J., President of Canisius College

VALEDICTORY:

STEPHEN P. CAIN

Award of Honors

ADDRESS TO GRADUATES

RT. REV. MSGR. JOHN T. SLATTERY, PH. D., M. R.

RECESSIONAL "Semper Fidelis".....*Sousa*

CLASS OF 1922

President.....STEPHEN P. CAIN

Vice-President.....HAROLD J. MURPHY

Treasurer.....CHARLES S. ROCHFORD

Secretary.....CARLTON P. O'CONNOR

Degrees Conferred

Bachelor of Arts

Boroszewski, John P.
 Cain, Stephen P.
 Dooley, Francis M.
 Evans, George J.
 Gibbons, William J.
 (cum laude)
 Hendricks, Frank P.
 Hendricks, Paul E.
 Koch, George A.
 Koessler, John W.
 Mullen, Joseph R.
 (cum laude)

O'Brien, Neal J.
 O'Connor, Carlton P.
 O'Hare, John J.
 Rochford, Charles
 Romasser, Justin F.
 (cum laude)
 Schupp, George J.
 Sheridan, William R.
 (cum laude)
 Smith, Ernest P.
 Strot, Henry J.
 Sullivan, Edward J.

Sister Anna Marie
 Coonly, Margaret M.
 Sister M. Cornelia
 Curran, Marie C.
 Dearing, Mary E.
 Dietrich, Mary M.
 Sister M. Dionysia
 (cum laude)
 Sister M. Electa
 Farrell, Bertha C.
 (cum laude)
 Flore, Bertha C.
 Sister M. Gonzaga
 (cum laude)

Sister M. Jeannette
 Judge, Josephine, M.
 (cum laude)
 Lane, Catherine L.
 (magna cum laude)
 Noonan, Anna H.
 (cum laude)
 Sister Rose Gertrude
 (cum laude)
 Sister Rose Marie
 (summa cum laude)
 Sister M. Virginia
 (cum laude)

Bachelor of Science

Dietrich, William A.
 Friel, Mark E.
 Graf, Harold J.
 (cum laude)
 Jordan, James P.

McDonnell, Arthur J.
 Murphy, Harold
 Regan, Arthur J.
 Stievater, Harry J.
 (cum laude)

Caulfield, Loretta V.
 Sister M. Constantia
 (cum laude)
 Crofts, Mary E.
 (magna cum laude)
 Sister M. Ignatia
 (magna cum laude)

Sister M. Irma
 Sister John Joseph
 (magna cum laude)
 Sister M. Macrína
 (cum laude)
 Schwartz, Esther M.

Degrees Conferred

Master of Arts

Dawson, Henry S.
(*magna cum laude*)

Frey, Emil A.

McTigue, Austin

Mercer, Nelson
(*magna cum laude*)

Phillips, Martin G.

Schmitt, Nicholas J.

Sweeney, Leo A.
(*cum laude*)

Sister Anna Gonzaga
(*cum laude*)

Burke, Nellie E.
(*cum laude*)

Creahan, Nora F.
(*cum laude*)

Sister M. Emily

Sister M. Francis
(*cum laude*)

Sister M. Gabriel
(*summa cum laude*)

Hanley, Mary A.

Maeder, Naomi C.

Mason, Irene

Sister Redempta Joseph

Riester, Adele E.
(*cum laude*)

Sister Rose Miriam
(*cum laude*)

Schumacher, Olive F.
(*cum laude*)

Steudle, Mary R.
(*cum laude*)

Valentine, Helen L.

Master of Science

Quinn, John J.

Rahill, Edward J.

Grupp, Florence H.
(*cum laude*)

Degrees Conferred

Thursday, August 10th—10:00 A. M.

Bachelor of Arts

Sister M. Edmund

Sister M. Joan

Sister M. Isabel
(*cum laude*)

Sister M. Ricardo

Bachelor of Science

Sister M. Hyronima

Sister M. Ignace

John McDonough Roach

William Aloysius Weber

Master of Arts

Sister M. Mechtilde

Award of Honors

St. Thomas Aquinas Medal, awarded to the member of the Senior class, who is most proficient in Philosophy. Won by John J. O'Hare.

Second prize won by Harold J. Graf.

Honorable Mention—Stephen P. Cain, George Koch, Joseph R. Mul-len, William J. Gibbons, Justin Romasser, Harry J. Stievater.

The St. Ann's Medal, awarded to the member of the Junior Arts class, who has the highest class standing in Philosophy, Physics, Chemistry or Biology. Won by Edward S. Schwegler.

Honorable Mention—Gervase Magrum, Earl Kleis.

Premium, awarded to the student in Junior Science, who has the highest standing. Won by Osmond W. Gaul.

Gold Medal, awarded to the student who has the highest class standing in Sophomore Arts. Won by Leo M. Kinn.

Honorable Mention—James H. Moran, Howard J. Gleason, Charles J. McDonough, Edwin G. O'Connor.

Premium, awarded to the student who has the highest class standing in Sophomore Science. Won by Arthur A. Espenscheid.

Premium, awarded to the student who has the highest class standing in Freshman Arts. Won by Francis E. Lane.

Honorable Mention—Edmund F. Talbot, Donald L. Stumpf, Albert P. McGrann.

Gold Medal, awarded to the student who has the highest class standing in Freshman Science. Won by Henry C. Lehde.

Honorable Mention—Cornelius G. Crowley, Colton C. Caulfield, Benjamin C. Heger.

The Pasteur Medal, awarded to the student in the second year Premedical Course who has the highest class standing in English and Science. Won by Werner J. Rose.

Honorable Mention—Eugene M. Sullivan, Chester J. Nadolny, Rudolph G. Buchheit, Benjamin Shmulovitz.

The Father Wassman Medal, awarded to the student in First Premedical Course who has the highest class standing in English and Science. Won by Stanley A. Nowak.

Honorable Mention—Florian S. Brylski.

Premium, awarded to the student who has the highest class standing in Advanced French. Won by Casimir T. Zawadzki.

Second Year French. Won by Earl Kleis.

Elementary French. Won by Stanley A. Nowak.

Award of Honors

Premium, awarded to the student who has the highest class standing in Advanced German. Won by Werner Rose.

Elementary German. Won by Richard Gardner.

Premium, awarded to the student who has the highest class standing in Advanced Spanish. Won by Joseph S. Kopec.

Second Year Spanish. Won by John Smith.

Elementary Spanish. Won by Henry C. Lehde.

Premium, awarded to the student in Freshman class who has the highest standing in Mathematics. Won by Colton C. Caulfield.

Premium, awarded to the student who has the highest class standing in History II. Won by Edward S. Schwegler.

History I. Won by Benjamin C. Herger.

A Medal to be awarded to the student who has won first place in annual Oratorical Contest, has been donated by Mr. and Mrs. August Bindeman in memory of their son, August Hart Bindeman, who was a member of the Class of 1922, and died September 26, 1921. This medal was awarded to Edward J. Sullivan.

Twenty Dollars in Gold, for the best essay in History, subject: "Hagia Sophia," is awarded to Benjamin Herger.

Twenty Dollars in Gold, for the best essay in Physics, subject: "A Study of Indicator for Steam Engines." Won by Cornelius G. Crowley.

Twenty Dollars in Gold, for the best essay in Chemistry, subject: "Ionization of Gases." Won by Arthur A. Espenscheid.

Twenty Dollars in Gold, for the best essay in Biology, subject: "Causes of Indigestion." Won by Stanley A. Nowak.

Twenty Dollars in Gold, for the best essay in Philosophy, subject: "The Emancipation of Women." Won by Charles Rochford.

Twenty Dollars in Gold, for the best essay in Literature, subject: "Journalism." Won by Osmond W. Gaul.

A Special Prize of Twenty Dollars in Gold, is this year awarded to Francis W. McKenna, for the best work in Laboratory in Junior Class.

The Valerian A. Ruskiewicz Memorial Prizes of Fifty Dollars Each, to the two members of the Senior Class, who have the highest standing for all the work of their college course in Physics and Chemistry. Won by William Sheridan and Harold J. Graf.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.45 TO 9.35	Philosophy I - II Latin I - II General Chemistry II Economics	Philosophy I Physics II Latin II Latin I Physical Chemistry Evidences I - B Philosophy III	Philosophy II - I Latin II Math. Fresh. B Gen. Chemistry II Biology I Lab.	Philosophy II - I Latin II Math. Fresh. B Biology III. Lect. English I - B Philosophy III	Philosophy I - II Latin II Math. Fresh. A English I - B Philosophy III	Philosophy I Physics II Lab. Greek II Evidences I Public Speaking
9.40 TO 10.30	Philosophy II Greek I History I Journalism II English II-B Biology I	History of Phil. English II - A Fresh. B Mathematics El. of Chem. Engin. Biology III English I-B Chemistry I Lab. B	Greek II History I Journalism I Biology I Lab. English II - B	Astronomy Physics II English II Journalism I Evidences I Physics II Gen. Chem. I Biology I Lect. English I - B	English II - A Latin I Journalism I English I - B Gen. Chem. I Biology I	Astronomy Physics II Lab. Public Speaking Chemistry Lab. I Physics IV Lect.
10.45 TO 11.35	Philosophy I Evidences III General Chemistry I Greek I Calculus Biology II	Evidences IV History II Greek I Physics I Lab. Chemistry I Lab. B. Physics IV	Philosophy I - II Physics I Latin I Journalism II Calculus Biology II Lab. Physics I	Evidences IV Philosophy II - I Latin I Calculus Biology I Lab. Physics IV Lect.	Philosophy I - II Gen. Chem. I Greek I Calculus Chemistry I Physics IV Lab.	Public Speaking Physics II Lab. Physics I Chemistry I Lab. Biology II Lab.
11.40 TO 12.30	Sociology Evidences II Latin I Organic Chem. Journalism I Fresh. Sc. Math. English I-B	English I Sociology B Philosophy II Greek II English I-A Organic Chem. Economics Physics I Lab.	Evidences III - II Greek I Philosophy I Math. Fresh. Sc. Biology II Lab.	Sociology History II English I - A Organic Chem. Fresh. Sc. Math. Biology I Lab.	History of Phil. Latin II Math. Fresh. A English I - A Physics IV Lab.	Public Speaking Journalism II Physics II Lab. Chemistry I Lab. Biology II Lab.
12.55 TO 1.40	Chem. I Lab. A Fresh. A Mathematics Quant. Anal. Biology III Laboratory Modern Language I	Physics II Lab. Physics III Fresh. Sc. Math. Mod. Language II	Chemistry I Lab. Math. Fresh. A Quant. Anal. Qual. Anal. Modern Language I Physics IV Lab.	Mod. Language II Physics III Biology III Lab.	Mod. Language I Chem. Engin. Qual. Anal.	
1.45 TO 2.35	Chemical I Lab. A Modern Language II Quant. Anal. Biology III Lab.	Organic Lab. Physics II Lab Physics III	Chemistry Lab. I Mod. Language I Quant. Anal. Physics IV Lab.	Mod. Language III Organic Lab. Physics III Biology III Lab.	Mod. Language II Chem. Engin. Qual. Anal.	
2.40 - 3.45	Quant. Anal.	Organic Lab.	Qual. Anal. Quant. Anal.	Organic Lab. Chemistry II Lab.	Mod. Language III. Physical Chem. Qual. Anal.	

Alphabetical List of Regular Students

Antkowiak, Adalbert S.....	21 Schutrum Street, Buffalo, N. Y.
Barber, Harold N.....	31 Johnson Park, Buffalo, N. Y.
Barten, Andrew N.....	888 Delaware Avenue, Buffalo, N. Y.
Batt, Norman P.....	73 Elmer Avenue, Buffalo, N. Y.
Battaglia, Anthony C.....	34 South Elmwood Avenue, Buffalo, N. Y.
Beale, Elmer G.....	46 Laurel Street, Buffalo, N. Y.
Benham, William I.....	173 Lafayette Avenue, Buffalo, N. Y.
Bermingham, Thomas P.....	24 Euclid Place, Buffalo, N. Y.
Berube, Ralph L.....	165 Bartlett Street, Lewiston, Me.
Biniskiewicz, Edmond A.....	177 Lovejoy Street, Buffalo, N. Y.
Blazak, Stanley E.....	31 Rohr Street, Buffalo, N. Y.
Boa, Raymond M.....	1798 Bailey Avenue, Buffalo, N. Y.
Boroszewski, Francis X.....	960 Fillmore Avenue, Buffalo, N. Y.
Boyd, James H.....	Carthage, N. Y.
Boyle, Robert M.....	62 Indian Church Road, Buffalo, N. Y.
Brady, Francis J.....	2800 Main Street, Buffalo, N. Y.
Brennan, James F.....	31 Hayden Street, Buffalo, N. Y.
Brett, Bertrand C.....	30 Main Street, Silver Creek, N. Y.
Broderick, Joseph V.....	573 Plymouth Avenue, Buffalo, N. Y.
Brylski, Florian S.....	85 Moselle Street, Buffalo, N. Y.
Buchheit, Rudolph G.....	167 Indian Church Road, Buffalo, N. Y.
Bulger, Raymond J.....	125 Lorraine Avenue, Buffalo, N. Y.
Burke, Robert G.....	180 East Utica Street, Buffalo, N. Y.
Burt, Russell E.....	48 Ada Place, Buffalo, N. Y.
Butler, John B.....	447 W. Ten Eyck Street, Watertown, N. Y.
Butler, Raymond J.....	148 Abbott Road, Buffalo, N. Y.
Cahill, John J.....	19 Newhall Street, Lowell, Mass
Callanan, Matthew J.....	1727 Main Street, Buffalo, N. Y.
Campbell, Robert E.....	504 Plymouth Avenue, Buffalo, N. Y.
Canty, Edward M.....	266 Lafayette Avenue, Buffalo, N. Y.
Cappeller, Edwin F.....	82 Days Park, Buffalo, N. Y.
Carberry, Francis X.....	101 University Avenue, Buffalo, N. Y.
Carogana, John J.....	138 Seventh Street, Buffalo, N. Y.
Casey, John W.....	436 Baynes Street, Buffalo, N. Y.
Caulfield, Colton C.....	133 Trowbridge Street, Buffalo, N. Y.
Chant, Harry L.....	180 Goundry Street, N. Tonawanda, N. Y.
Clancy, Gerald E.....	116 Maple Street, Hornell, N. Y.
Cole, Clarence J.....	674 Parkside Avenue, Buffalo, N. Y.
Colling, Clarence F.....	10 Albro Avenue, Springville, N. Y.
Collins, Harry J.....	1828 Seneca Street, Buffalo, N. Y.
Conley, Daniel H.....	Barker, N. Y.
Conley, Joseph H.....	129 Duerstein Street, Buffalo, N. Y.
Constantino, Jacob George.....	Mt. Morris, N. Y.
Coughlin, John D.....	49 O'Connell Avenue, Buffalo, N. Y.
Cross, Warren G.....	Westport, N. Y.
Crowley, Cornelius G.....	76 Florida Street, Buffalo, N. Y.
Crowley, Francis E.....	206 North Park Avenue, Buffalo, N. Y.
Cuddihy, Edwin M.....	397 Eagle Street, Buffalo, N. Y.
Culliton, Edward C.....	2079 Main Street, Buffalo, N. Y.
Currier, Leonard G.....	Smith Bldg., North Tonawanda, N. Y.
Curry, James R.....	49 Burgard Place, Buffalo, N. Y.
Curtin, Stanley E.....	38 Meriden Street, Buffalo, N. Y.
Dady, James T.....	432 Hoyt Street, Buffalo, N. Y.
D'Arcy, Frank L.....	168 Norwood Avenue, Buffalo, N. Y.

Dargan, Joseph L.....	87 California Street, Buffalo, N. Y.
DeLaney, Richard T.....	1500 Delaware Avenue, Buffalo, N. Y.
Dempsey, William J.....	155 Lockwood Avenue, Buffalo, N. Y.
Desmond, Arthur J.....	449 Norwood Avenue, Buffalo, N. Y.
Desmond, Theodore C.....	196 East Second Street, Dunkirk, N. Y.
Dietrich, John J.....	3 Maple Avenue, Middleport, N. Y.
Dimmers, Carl J.....	101 Indian Church Road, Buffalo, N. Y.
Dolan, William J.....	69 Zittle Street, Buffalo, N. Y.
Doll, Clarence W.....	1061 Ellicott Street, Buffalo, N. Y.
Donnelly, Joseph E.....	581 West Avenue, Buffalo, N. Y.
Donohue, John V.....	131½ Hancock Street, Worcester, Mass.
Donovan, James A.....	92 Sixteenth Street, Buffalo, N. Y.
Doran, Donald E.....	Lima, N. Y.
Downes, Arthur I.....	557 West Avenue, Buffalo, N. Y.
Doyle, David F.....	22 Hawley Street, Buffalo, N. Y.
Duane, Paul R.....	68 West Tenth Street, Jamestown, N. Y.
Dwinelle, Harold W.....	103 Franklin Street, Auburn, N. Y.
Dwyer, Francis T.....	89 West Avenue, Buffalo, N. Y.

Egan, Charles A.....	735 Harris Avenue, Woonsocket, R. I.
Egloff, George F.....	160 Indian Church Road, Buffalo, N. Y.
Elliott, John J.....	310 Purdy Street, Buffalo, N. Y.
Espenscheid, Arthur A.....	16 E. Main Street, Hamburg, N. Y.

Fadale, Ignatius C.....	233 Trenton Avenue, Buffalo, N. Y.
Feist, Henry C.....	592 Linwood Avenue, Buffalo, N. Y.
Feist, Louis E.....	725 Lafayette Avenue, Buffalo, N. Y.
Fetes, Alton J.....	47 Hartman Place, Buffalo, N. Y.
Ferraro, Dominic.....	117 Cedar Street, Buffalo, N. Y.
Flannigan, James T.....	Canandaigua, N. Y.
Flavin, George F.....	23 Frontenac Avenue, Buffalo, N. Y.
Franklin, Edward J.....	453 Summer Street, Woonsocket, R. I.
Frucella, Salvatore R.....	315 Trenton Avenue, Buffalo, N. Y.
Fulco, Rosario A.....	354 Front Avenue, Buffalo, N. Y.
Furman, Donald J.....	East Concord, N. Y.

Gallagher, Gerald J.....	164 Prospect Avenue, Buffalo, N. Y.
Gallo, Frank A.....	508 Fifteenth Street, Buffalo, N. Y.
Gampp, Charles G.....	55 Glendale Avenue, Buffalo, N. Y.
Gardner, Richard M.....	298 Bernard Street, Rochester, N. Y.
Garrity, Joseph.....	348 Porter Avenue, Buffalo, N. Y.
Gaul, Osmond W.....	Lockport, N. Y.
Gentsch, John F.....	102 Northampton Street, Buffalo, N. Y.
Gerace, Louis A.....	9 Hyde Park, Batavia, N. Y.
Gerber, Charles J.....	392 Pearl Street, Buffalo, N. Y.
Gerstner, Martin L.....	2059 Main Street, Buffalo, N. Y.
Gibbons, William H.....	320 Millbury Street, Worcester, Mass.
Glaeser, Leonard F.....	316 Riley Street, Buffalo, N. Y.
Glastetter, George V.....	1458 Michigan Avenue, Buffalo, N. Y.
Gleason, Howard J.....	406 Glenwood Avenue, Buffalo, N. Y.
Goebel, Frederick B.....	Eden, N. Y.
Gordon, Raymond J.....	438 Hoyt Street, Buffalo, N. Y.
Graber, Arthur J.....	199 Crystal Avenue, Buffalo, N. Y.
Graham, Raymond F.....	1331 Abbott Road, Buffalo, N. Y.
Greene, Charles J.....	79 Wellington Road, Buffalo, N. Y.
Griffin, William J.....	34 Heward Street, Buffalo, N. Y.
Gruenauer, Charles J.....	317 Sherman Street, Buffalo, N. Y.
Guarnieri, George A.....	55 Main Street, Ashtabula, Ohio
Gugino, Samuel.....	596 Niagara Street, Buffalo, N. Y.
Gunn, Donald A.....	19 Sixteenth Street, Buffalo, N. Y.

Haley, George P.	109 Spruce Street, Leominster, Mass.
Haley, Lambert F.	328 Fifteenth Street, Buffalo, N. Y.
Hanlon, Donald F.	550 Breckenridge Street, Buffalo, N. Y.
Hardy, George M.	228 Ontario Street, Buffalo, N. Y.
Hassenfratz, Arthur C.	180 Hughes Avenue, Buffalo, N. Y.
Hawro, A. Vincent.	200 St. Marys Street, Lancaster, N. Y.
Hennessey, Paul.	348 Porter Avenue, Buffalo, N. Y.
Hens, Francis J.	29 Summit Avenue, Buffalo, N. Y.
Hens, Paul T.	29 Summit Avenue, Buffalo, N. Y.
Herger, Benjamin C.	20 Putnam Street, Buffalo, N. Y.
Heyden, Clarence F.	83 Nineteenth Street, Buffalo, N. Y.
Hillery, Joseph D.	6 Navaho Parkway, Buffalo, N. Y.
Hoar, James E.	122 Sidway Street, Buffalo, N. Y.
Hogan, E. Vincent.	100 Richmond Avenue, Buffalo, N. Y.
Hohorst, Clarence B.	754 Broadway, Buffalo, N. Y.
Holbel, Sylvester J.	7 Guernsey Street, Buffalo, N. Y.
Horrigan, James F.	241 O'Connell Avenue, Buffalo, N. Y.
Jauch, Edwin C.	293 Winslow Avenue, Buffalo, N. Y.
Jones, Thomas J.	450 Fargo Avenue, Buffalo, N. Y.
Jordan, Howard S.	79 Hampshire Street, Buffalo, N. Y.
Joyce, Leo A.	448 Victory Avenue, Lackawanna, N. Y.
Kaszubowski, Francis J.	472 Sweet Avenue, Buffalo, N. Y.
Kavanagh, Cyril J.	96 Peabody Street, Buffalo, N. Y.
Kennedy, George A.	9 Bond Street, Buffalo, N. Y.
Kenny, Thomas.	384 Crescent Avenue, Buffalo, N. Y.
Kerr, Eugene A.	219 Stockbridge Avenue, Buffalo, N. Y.
Killeen, Thomas F.	734 Richmond Avenue, Buffalo, N. Y.
Kinsella, Edward P.	273 Sumner Place, Buffalo, N. Y.
Kleis, Earl M.	102 Triangle Street, Buffalo, N. Y.
Kolkmeier, Cletus J.	260 Krettner Street, Buffalo, N. Y.
Kopce, Joseph S.	111 Metcalfe Street, Buffalo, N. Y.
Kwiczikowski, Leonard V.	1424 Broadway, Buffalo, N. Y.
La Duca, John.	476 Front Avenue, Buffalo, N. Y.
La Duca, Paul.	476 Front Avenue, Buffalo, N. Y.
Lang, Norman E.	502 Glenwood Avenue, Buffalo, N. Y.
Lascola, August.	720 Seventh Street, Buffalo, N. Y.
Lawler, Clarence G.	Ashford, N. Y.
Layer, Julius J.	298 Caledonia Street, Lockport, N. Y.
Leahy, Harold V.	50 Pelham Street, Newton Center, Mass.
Lehde, Henry C.	Forks, N. Y.
Leone, Joseph C.	170 Brown Street, Rochester, N. Y.
Linnehan, John.	348 Porter Avenue, Buffalo, N. Y.
Littlefield, Leo J.	21 Lyth Avenue, Buffalo, N. Y.
Loneragan, Thomas J.	85 Roanoke Avenue, Buffalo, N. Y.
Lutz, Joseph B.	Forks, N. Y.
Lynch, Arthur T.	87 Fort Hill Avenue, Lowell, Mass.
Lynch, Frank M.	694 South Division Street, Buffalo, N. Y.
Lynch, Maxey J.	111 Greenfield Street, Buffalo, N. Y.
Lyons, Thomas V.	469 West Ferry Street, Buffalo, N. Y.
McCabe, Hugh.	348 Porter Avenue, Buffalo, N. Y.
McCarthy, Ignatius De P.	141 Kentucky Street, Buffalo, N. Y.
McCarty, Francis.	2834 Lewiston Road, Niagara Falls, N. Y.
McCormick, Elmer F.	61 Gates Street, Holyoke, Mass.
McCormick, Joseph J.	11 Harlow Place, Buffalo, N. Y.
McDonald, Francis J.	597 Grant Street, Buffalo, N. Y.
McDonald, Jerome J.	426 Fifth Street, Niagara Falls, N. Y.
McDonald, John F.	71 S. Grant Street, Wilkes Barre, Pa.

McDonough, Charles J.	2194 Main Street, Buffalo, N. Y.
McDonough, Charles J.	294 Woodward Avenue, Buffalo, N. Y.
McGrail, Thomas F.	23 Fulton Street, Worcester, Mass.
McGrann, Albert P.	411 West Ten Eyck Street, Watertown, N. Y.
McGrath, Francis J.	110 Beatrice Avenue, Buffalo, N. Y.
McKenna, Francis W.	138 Adams Street, Buffalo, N. Y.
McLean, Joseph R.	253 Massachusetts Avenue, Buffalo, N. Y.
McMahon, Gerald A.	76 Donaldson Road, Buffalo, N. Y.
McMahon, John J.	110 Alabama Street, Buffalo, N. Y.
McNally, William D.	31 Carlton Street, Buffalo, N. Y.
McOwen, James B.	510 Lafayette Avenue, Buffalo, N. Y.
McPherson, Henry E.	385 Hampshire Street, Buffalo, N. Y.
Madigan, Edward T.	201 Prospect Avenue, Buffalo, N. Y.
Magrum, Gervase M.	Snyder, N. Y.
Maier, Lester J.	Bergen, N. Y.
Mahoney, John F.	48 View Street, Holyoke, Mass.
Mahoney, Louis P.	9 Kurtz Avenue, Lancaster, N. Y.
Mahony, James E.	60 Sage Avenue, Buffalo, N. Y.
Mantell, Joseph A.	713 Myrtle Avenue, Watertown, N. Y.
Margarone, Joseph E.	207 Front Avenue, Buffalo, N. Y.
Mason, Edgar J.	447 Huntington Avenue, Buffalo, N. Y.
May, Raymond F.	30 Central Avenue, Lancaster, N. Y.
Mazurowski, Klemens L.	668 Northampton Street, Buffalo, N. Y.
Metz, Norman E.	50 Horton Place, Buffalo, N. Y.
Meyers, Leo J.	102 Mang Avenue, Kenmore, N. Y.
Mielcarek, Xavier.	1393 West Avenue, Buffalo, N. Y.
Missert, Charles J.	137 Mariner Street, Buffalo, N. Y.
Moore, Francis E.	31 Ericson Avenue, Buffalo, N. Y.
Moran, James H.	227 Church Street, Buffalo, N. Y.
Mueller, Joseph J.	248 Sumner Place, Buffalo, N. Y.
Mullany, Harry S.	45 Putnam Street, Buffalo, N. Y.
Murphy, Eugene D.	1991 Bailey Avenue, Buffalo, N. Y.
Naples, John D.	116 Lafayette Avenue, Buffalo, N. Y.
Naples, Peter J.	116 Lafayette Avenue, Buffalo, N. Y.
Navagh, James J.	151 Loring Avenue, Buffalo, N. Y.
Nessler, Floyd G.	87 Englewood Avenue, Buffalo, N. Y.
Nicastro, Calogeno A.	120 Front Avenue, Buffalo, N. Y.
Nienhaus, Bernard J.	27 Schuele Avenue, Buffalo, N. Y.
Nighan, Joseph B.	Lima, N. Y.
Niland, John E.	269 North Transit Street, Lockport, N. Y.
Nolan, Joseph P.	11 Crowley Street, Lowell, Mass.
Nowak, Stanley A.	1255 Broadway, Buffalo, N. Y.
O'Brien, Edward W.	40 Leverette Street, Fredonia, N. Y.
O'Brien, Joseph E.	463 Elmwood Avenue, Niagara Falls, N. Y.
O'Connor, Edwin G.	429 Forest Avenue, Buffalo, N. Y.
O'Day, John K.	64 Peoria Street, Buffalo, N. Y.
Okoniewski, Theodore B.	87 Kelburn Street, Buffalo, N. Y.
O'Leary, Thomas V.	19 Mt. Vernon Parkway, Buffalo, N. Y.
Over, Raymond C.	35 Newell Avenue, Lancaster, N. Y.
Pantera, Joseph F.	26 Pulaski Street, Buffalo, N. Y.
Pellien, Earl W.	708 Broadway, Buffalo, N. Y.
Pendergast, Robert T.	771 Prospect Avenue, Buffalo, N. Y.
Plunkett, Robert L.	6732 Glenwood Avenue, Chicago, Ill.
Poirier, Wilfred.	348 Porter Avenue, Buffalo, N. Y.
Powers, William F.	8 Belknap Street, Worcester, Mass.
Pronobis, Andrew M.	204 Cable Street, Buffalo, N. Y.
Pyros, Andrew.	2001 Main Street, Buffalo, N. Y.

Quinlivan, John L.	583 West Avenue, Buffalo, N. Y.
Quinn, Edward F.	187 North Park Avenue, Buffalo, N. Y.
Regan, James F.	156 Indian Church Road, Buffalo, N. Y.
Regan, Timothy J.	156 Indian Church Road, Buffalo, N. Y.
Reiber, Norman J.	255 Stanton Street, Buffalo, N. Y.
Renz, Anselm J.	318 Broadway, Buffalo, N. Y.
Reynolds, Francis E.	217 West Second Street, Fulton, N. Y.
Richards, John L.	32 Sidway Street, Buffalo, N. Y.
Rider, Charles N.	353 Richmond Avenue, Buffalo, N. Y.
Rindfuss, Leo C.	51 French Street, Buffalo, N. Y.
Riordan, Arthur J.	75 Highland Avenue, Buffalo, N. Y.
Riordan, Daniel J.	20 South Euclid Place, Buffalo, N. Y.
Riordan, Thomas C.	75 Highland Avenue, Buffalo, N. Y.
Rizzo, Dominic P.	56 East Bank Street, Albion, N. Y.
Roche, Vincent J.	847 West Avenue, Buffalo, N. Y.
Rohmer, Arthur L.	26 Broadway, Lancaster, N. Y.
Roth, George J.	100 Amherst Street, Buffalo, N. Y.
Ryan, George T.	158 Dana Avenue, Worcester, Mass.
Ryan, John W., Jr.	2369 Seneca Street, Buffalo, N. Y.
Saele, Frank J.	266 Front Avenue, Buffalo, N. Y.
Schaad, W. Fred.	Clarence Center, N. Y.
Schaefer, Robert A.	56 Park Boulevard, Lancaster, N. Y.
Schank, Joseph F.	155 Sixteenth Street, Buffalo, N. Y.
Schamel, John B.	1208 West Avenue, Buffalo, N. Y.
Schmitt, Aloysius J.	53 Herman Street, Buffalo, N. Y.
Schreck, William G.	1171 East Delavan Avenue, Buffalo, N. Y.
Schumacher, Jules F.	109 Dodge Street, Buffalo, N. Y.
Schutz, Joseph A.	70 Keystone Street, Buffalo, N. Y.
Schwab, Charles G.	282 Baynes Street, Buffalo, N. Y.
Schwab, Francis X.	2 West Parade Avenue, Buffalo, N. Y.
Schwartz, Herbert G.	30 East Fifth Street, Dunkirk, N. Y.
Schwegler, Edward S.	274 Loring Avenue, Buffalo, N. Y.
Seymour, Francis J.	340 Baynes Street, Buffalo, N. Y.
Sheehe, Bernard G.	Java Village, N. Y.
Shoemaker, Francis C.	67 Pierce Avenue, Hamburg, N. Y.
Shortal, Harry F.	28 York Street, Buffalo, N. Y.
Sklarow, Louis.	111 Grey Street, Buffalo, N. Y.
Smith, Archibald P., Jr.	187 Goundry Street, North Tonawanda, N. Y.
Smith, James Lester.	10 Central Avenue, Batavia, N. Y.
Smith, James Joseph.	698 Hopkins Street, Buffalo, N. Y.
Smith, John Henry.	Clarence, N. Y.
Smith, Leo R.	343 Rhode Island Street, Buffalo, N. Y.
Snediker, James B.	165 Erie Street, Lockport, N. Y.
Snyder, Earl P.	1477 Main Street, Buffalo, N. Y.
Solomon, Harold A.	211 Winslow Avenue, Buffalo, N. Y.
Spelman, James E.	1102 Columbia Avenue, Chicago, Ill.
Stahrr, Walter J.	16 Rees Street, Buffalo, N. Y.
Steffan, William J.	440 Franklin Street, Buffalo, N. Y.
Stievater, Willard C.	923 Humboldt Parkway, Buffalo, N. Y.
Stumpf, Donald L.	425 Park Avenue, Dunkirk, N. Y.
Swannie, George W.	50 Clarendon Place, Buffalo, N. Y.
Sweeney, Eugene.	348 Porter Avenue, Buffalo, N. Y.
Sweeney, Leonard.	348 Porter Avenue, Buffalo, N. Y.
Sweeney, Louis A.	744 Ashland Avenue, Buffalo, N. Y.
Sweeney, Raymond J.	103 Crescent Avenue, Buffalo, N. Y.
Suess, Lester J.	90 Central Avenue, Lancaster, N. Y.
Sullivan, Richard P.	127 N. Lowell Avenue, Syracuse, N. Y.
Sullivan, Thomas C.	308 West Delavan Avenue, Buffalo, N. Y.

Talty, Francis P.....	28 Oakdale Place, Buffalo, N. Y.
Tauriello, Daniel A.....	315 West Utica Street, Buffalo, N. Y.
Thill, John V.....	16 St. John's Street, Lancaster, N. Y.
Tierney, Patrick J.....	135 South Street, Biddeford, Me.
Tomordy, Charles S.....	North Tonawanda, N. Y.
Tousley, Leo K.....	233 Sumner Place, Buffalo, N. Y.
Tramontana, Charles B.....	109 Hudson Street, Buffalo, N. Y.
Traynor Ralph M.....	Bangor, Me.
Trulin, John H.....	219 May Street, Buffalo, N. Y.
Turcotte, Eugene.....	Holyoke, Mass
Turkowski, Louis E.....	122 Gittere Street, Buffalo, N. Y.
Volker, Julius J.....	39 Erie Street, Lancaster, N. Y.
Vaughn, James E.....	175 Indian Church Road, Buffalo, N. Y.
Walczynski, Edward M.....	Angola, N. Y.
Ward, Cornelius F.....	444 South Park Avenue, Buffalo, N. Y.
Ward, Edward.....	348 Porter Avenue, Buffalo, N. Y.
Waters, Layton A.....	258 Glenwood Avenue, Buffalo, N. Y.
Weldon, Edward J.....	234 Curtis Street, Watertown, N. Y.
White, Richard A.....	14 Pearl Place, Buffalo, N. Y.
White, William F.....	47 Glendale Place, Buffalo, N. Y.
Winkler, Henry W.....	280 Humboldt Parkway, Buffalo, N. Y.
Wohlrab, Raymond C.....	205 Hague Street, Rochester, N. Y.
Wojtkowski, Stanley F.....	315 Gibson Street, Buffalo, N. Y.
Wolf, Hugh K.....	24 St. James Place, Buffalo, N. Y.
Wurtz, Linus M.....	Boston, N. Y.
Zawadzki, Casimir T.....	798 Fillmore Avenue, Buffalo, N. Y.
Zawierucha, Rudolph A.....	28 Howlett Street, Buffalo, N. Y.
Zirnheld, Albert P.....	934 Grant Street, Buffalo, N. Y.



Catalogue of Students by Classes

GRADUATE STUDENTS

Friel, Mark, B. S.....	Canisius College
Heimerle, Herbert, B. A.....	Canisius College
McDonnell, Arthur J., B.S.....	Canisius College
Mullen, Joseph R., B. A.....	Canisius College
Pingitore, Louis A., B. A.....	Canisius College
Curran, Marie, B. A.....	Canisius College
Dearing, Mary E., B. A.....	Canisius College
Dietrich, Mary M., B. A.....	Canisius College
Doyle, Eleanor, Ph. B.....	University of Chicago
Dunne, Frances E., B. A.....	D'Youville College
Farrell, Bertha C., B. A.....	Canisius College
Flore, Bertha C., B. A.....	Canisius College
Greenough, Loretta, B. A.....	Canisius College
Judge, Josephine M., B. A.....	Canisius College
Kauffman, Kathryn M., B. A.....	D'Youville College
Lane, Catherine S., B. A.....	Canisius College
Redmond, Beatrice., B. A.....	D'Youville College
Schwartz, Esther, B. S.....	Canisius College
Sullivan, Katherine E., B. S.....	University of Buffalo
Sister Mary Alexander, B. A.....	Catholic University
Sister M. Ambrose, B. S.....	Canisius College
Sister M. Constantia, B. A.....	Canisius College
Sister Edmund, B. S.....	Canisius College
Sister M. Electa, B. A.....	Canisius College
Sister M. Irma, B. S.....	Canisius College
Sister M. Isabel, B.A.....	Canisius College
Sister M. Joanna, B. A.....	Canisius College
Sister John Joseph, B. S.....	Canisius College
Sister St. Leonard, B. S.....	Canisius College
Sister M. Lima, B. A.....	Canisius College
Sister Mary Paulina, B. A.....	Catholic University
Sister Rose Gertrude, B.A.....	Canisius College

SENIOR CLASS

*Gaul, Osmond W.	Cuddihy, Edwin M.
Gentsch, John F.	Lutz, Joseph B.
Griffin, William J.	*Lynch, Maxey J.
Haley, Lambert F.	McKenna, Francis W.
Hoar, James E.	Magrum, Gervase M.
*Joyce, Leo A.	*Metz, Norman E.
Kinsella, Edward P.	*O'Brien, Edward W.
Kleis, Earl M.	Schwegler, Edward S.
Kopec, Joseph S.	*Stievater, Willard C.

Wolf, Hugh K.

JUNIOR CLASS

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| *Brady, Francis J. | Horrigan, James F. |
| Brennan, James F. | McCormick, Joseph J. |
| Broderick, Joseph V. | McDonough, Charles J. |
| *Buchheit, Rudolph G. | McGrail, Thomas F. |
| Callanan, Matthew J. | *McMahon, Gerald A. |
| *Clancy, Gerald E. | Moore, Francis E. |
| Crowley, Francis E. | Moran, James H. |
| Culliton, Edward C. | Naples, John D. |
| *Espenscheid, Arthur A. | O'Connor, Edwin G. |
| Gampp, Charles G. | *Riordan, Arthur J. |
| Gerace, Louis A. | Seymour, Francis J. |
| Gleason, Howard J. | *Stahrr, Walter |
| *Guarnieri, George A. | Volker, Julius J. |
| Holbel, Sylvester J. | *Ward, Cornelius F. |

SOPHOMORE CLASS

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| *Battaglia, Anthony C. | *Lehde, Henry C. |
| *Biniskiewicz, Edmund A. | McCarthy, Ignatius De P. |
| *Brylski, Florian S. | *McDonough, Charles J. |
| *Burt, Russell E. | McGrann, Albert P. |
| *Carberry, Francis X. | *Madigan, Edward T. |
| *Caulfield, Colton C. | Maher, Lester J. |
| *Conley, Daniel H. | *Margarone, Joseph E. |
| Conley, Joseph H. | *Mazurowski, Klemens L. |
| *Constantino, Jacob G. | *Nicastro, Calogero A. |
| *Crowley, Cornelius G. | *Nighan, Joseph B. |
| *Currier, Leonard G. | *Niland, John E. |
| *Dargan, Joseph L. | *Nolan, Joseph P. |
| *Dempsey, William J. | *Nowak, Stanley A. |
| *Dolan, William J. | *O'Brien, Joseph E. |
| *Doll, Clarence W. | *O'Day, John K. |
| *Donnelly, Joseph E. | Over, Raymond C. |
| *Donovan, James A. | *Pyros, Andrew |
| *Duane, Paul R. | *Quinn, Edward F. |
| *Egan, Charles A. | Richards, John L. |
| *Fadale, Ignatius C. | *Rider, Charles N. |
| *Feist, Henry C. | *Roth, George J. |
| Fetes, Alton J. | *Schamel, John B. |
| *Flavin, George F. | *Schank, Joseph F. |
| Fulco, Rosario A. | *Sheehe, Bernard G. |
| Furman, Donald J. | *Sklarow, Louis |
| *Gardner, Richard M. | *Smith, John H. |
| *Gerstner, Martin L. | Stumpf, Donald L. |
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| *Hardy, George M. | Sweeney, Louis A. |
| *Hassenfratz, Arthur C. | *Talty, Francis P. |
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| *Hohorst, Clarence B. | *Tousley, Leo K. |
| *Herger, Benjamin C. | *Tramontana, Charles B. |
| *Killeen, Thomas F. | Trulin, John H. |
| *Lang, Norman E. | Waters, Layton A. |
| *Lawler, Clarence G. | *White, Richard A. |

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- Barten, Andrew N.
 Batt, Norman P.
 *Benham, William I.
 Bermingham, Thomas P.
 *Berube, Ralph L.
 *Blazak, Stanley E.
 *Boa, Raymond M.
 Boroszewski, Francis X.
 Boyle, Robert M.
 *Brett, Bertrand C.
 *Bulger, Raymond J.
 *Burke, Robert G.
 *Butler, John B.
 Butler, Raymond J.
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 Carogana, John J.
 *Casey, John W.
 *Chant, Harry L.
 *Cole, Clarence J.
 Coughlin, John D.
 *Cross, Warren G.
 Curry, James R.
 Curtin, Stanley E.
 D'Arcy, Frank L.
 *De Laney, Richard T.
 Desmond, Arthur J.
 Desmond, Theodore C.
 *Dietrich, John J.
 *Dimmers, Carl J.
 *Donohue, John V.
 *Doran, Donald E.
 *Downes, Arthur I.
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 *Dwinelle, Harold W.
 *Dwyer, Francis T.
 *Egloff, George F.
 *Elliott, John J.
 *Ferraro, Dominic
 *Flannigan, James T.
 *Franklin, Edward J.
 *Frucella, Salvatore R.
 *Gallagher, Gerald J.
 *Gallo, Frank A.
 Garrity, Joseph
 *Gerber, Charles J.
 *Glaeser, Leonard F.
 *Glastetter, George V.
 Goebel, Frederick B.
 *Graber, Arthur J.
 Graham, Raymond F.
 *Greene, Charles J.
 *Gruenauer, Charles J.
 *Gugino, Samuel
 *Gunn, Donald A.
 *Haley, George P.
 *Hanlon, Donald F.
 *Hawro, Vincent A.
 Hennessey, Paul
 *Hens, Francis J.
 *Hens, Paul T.
 Hillery, Joseph D.
 Hogan, Vincent E.
 *Jauch, Edwin C.
 Kavanagh, Cyril I.
 *Kaszubowski, Francis J.
 Kolkmeier, Cletus J.
 *Kennedy, George A.
 *Kenny, Thomas
 *Kerr, Eugene A.
 *Kwiczikowski, Leonard V.
 La Duca, John
 *La Duca, Paul
 *Lascola, August
 *Lay, Julius J.
 *Leahy, Harold V.
 *Leon, Joseph C.
 Linnehan, John
 Littlefield, Leo J.
 Lyons, Thomas V.
 McCabe, Hugh
 *McCarty, Francis G.
 *McDonald, Jerome J.
 McDonald, John F.
 McGrath, Francis J.
 McLean, Joseph R.
 *McOwen, James B.
 *McPherson, Henry E.
 Mahoney, Louis P.
 *Mahony, James E.
 *Mantell, Joseph A.
 *Mason, Edgar J.
 *Meyers, Leo J.
 *Mielcarek, Xavier
 Missert, Charles J.
 Mueller, Joseph J.
 *Mullany, Harry S.
 *Murphy, Eugene D.
 Naples, Peter J.
 Navagh, James J.
 *Nessler, Floyd G.
 *Nienhaus, Bernard J.
 *Okoniewski, Theodore B.
 *O'Leary, Thomas V.
 *Pantera, Joseph F.
 Pellien, Earl W.
 Pendergast, Robert T.
 *Plunkett, Robert L.
 Poirier, Wilfred
 *Powers, William F.
 Pronobis, Andrew M.

- *Quinlivan, John L.
 *Regan, James F.
 Reiber, Norman J.
 *Renz, Anselm J.
 *Reynolds, Francis E.
 Riordan, Daniel J.
 Riordan, Thomas C.
 *Rizzo, Dominic P.
 Roche, Vincent J.
 *Rohmer, Arthur L.
 *Ryan, George T.
 Ryan, John W.
 *Saele, Frank J.
 *Schaefer, Robert A.
 *Schmitt, Aloysius J.
 Schreck, William G.
 *Schumacher, Jules F.
 *Schutz, Joseph A.
 *Schwab, Charles G.
 *Schwab, Francis X.
 *Schwartz, Herbert G.
 *Shoemaker, Francis C.
 *Shortal, Harry F.
 *Smith, Archibald P., Jr.
 *Smith, James J.
 Smith, James L.
 Smith, Leo R.
 *Sneidiker, James B.
 Snyder, Earl P.
 *Solomon, Harold A.
 *Spelman, James E.
 *Steffan, William J.
 *Suess, Lester J.
 *Sullivan, Richard P.
 Sullivan, Thomas C.
 Sweeney, Eugene
 Sweeney, Leonard
 *Sweeney, Raymond J.
 *Tauriello, Daniel A.
 *Tomordy, Charles S.
 *Vaughn, James E.
 *Walczynski, Edward M.
 Ward, Edward
 *Weldon, Edward J.
 White, William F.
 *Wohlrab, Raymond C.
 *Wojtkowski, Stanley F.
 *Wurtz, Linus
 Zawierucha, Rudolph A.
 *Zirnheld, Albert A.

SPECIAL AND UNCLASSIFIED

- Antkowiak, Adalbert S.
 Barber, Harold N.
 Beale, Elmer G.
 Boyd, James H.
 Cahill, John J.
 Canty, Edward M.
 Colling, Clarence F.
 Collins, Harry J.
 Dady, James T.
 Feist, Louis E.
 Gordon, Raymond J.
 Jones, Thomas J.
 Jordan, Howard S.
 Lonergan, Thomas J.
 Lynch, Arthur T.
 Lynch, Frank M.
 McCormick, Elmer F.
 McDonald, Francis J.
 McMahon, John J.
 McNally, William D.
 Mahoney, John F.
 May, Raymond F.
 Rindfuss, Leo C.
 Schaad, W. Fred
 Tierney, Patrick J.
 Traynor, Ralph M.
 Turkowski, Louis E.
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 Zawadzki, Casimir T.

*Science Course.

Summer School, 1922

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Sister Anna Frances	Sister M. Miriam Joseph
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Sister M. Celestia	Sister St. James
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Sister Francis Borgia	Sister Thomas Francis
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Sister Vincent Gregory	

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Sister M. Dolores	Sister M. Louise
Sister John Francis	Sister M. Margaret
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SISTERS OF MERCY
ERIE, PA.

Sister M. Aloysia	Sister M. Bernadette
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SISTERS OF MERCY
ROCHESTER, N. Y.

Sister M. Camilla	Sister M. Francesca
Sister M. Charles	Sister M. Loretto
Sister M. Columba	Sister M. Stella

SISTERS OF NOTRE DAME
BUFFALO, N. Y.

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Sister M. Eymard	Sister M. Nepomucene

LAY STUDENTS

Anderson, Miss Margaret E.
Anderson, Miss Mary E.

Barden, Mr. John
Barone, Mr. George H.
Barr, Mr. Philip J.
Batt, Miss Evelyn
Beanan, Mr. Francis J.
Bogan, Mr. Robert J.
Boone, Mr. Daniel
Brennan, Miss Rose V.
Buchanan, Mr. George J.
Burlingame, Mr. Richard M.
Burns, Mr. Robert M.
Burt, Mr. Earle A.
Bush, Miss Marcella

Campbell, Mr. Cornelius A.
Carman, Miss Villie M.
Cleary, Miss Mary
Cleveland, Mr. Spencer
Collins, Mr. John F.
Colton, Mr. Harold J.
Conrad, Miss Mary
Coyle, Miss Helen L.
Cuff, Miss Helen
Currier, Mr. Leonard G.

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Dearing, Miss Mary E.
De Laney, Miss Helen A.
De Laney, Miss Mary A.
Dimmers, Miss Mabel M.
Dixon, Mr. John
Dixon, Mr. Thomas J.
Dockery, Miss Lily
Dold, Mr. Albert W.
Donovan, Miss Elizabeth C.
Donovan, Mr. James A.
Dreybus, Mr. Newell G.

Farrell, Miss Bertha C.
Farrington, Miss Mary E.
Flore, Miss Bertha C.
Flynn, Mr. Bernard J.
Frank, Mr. Solomon

Giblin, Miss Genevieve E.
Gilbert, Mr. William J.
Gordon, Mr. Raymond J.
Green, Mr. Starkey M.
Guminski, Mr. Thaddeus E.

Hackett, Mr. James L.
Haley, Mr. F. Lambert
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Henel, Miss Catherine S.
Henning, Miss Julia M.
Hens, Mr. Francis J.

Herger, Mr. Benjamin C.
Higgins, Miss Mercedes E.
Hill, Miss Mary C.
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Lane, Miss Catharine L.
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Schnieder, Miss Martha B.
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Schwartz, Miss Esther M.
Seitz, Miss Cora M.
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Shea, Mr. James L.
Simmernacher, Mr. George
Snediker, Mr. James

Snyder, Mr. Earl P.
Stanton, Mr. Cornelius J.
Sullivan, Miss Katherine E.
Sutor, Miss Lucile C.
Tramontana, Mr. Charles B.
Wagner, Mr. Donald M.
Ward, Mr. Cornelius F.
Weber, Mr. William A.
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Miss Nora F. Creahan.....	10 Seneca Parkside
EDUCATION	
Miss Anna M. Crehan.....	116 Walter Street
BIOLOGY	
Mr. Matthew A. Cullen.....	92 Roanoke Parkway
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LATIN	
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Sister M. Flaviana.....	
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Sister M. Gertrudis.....	
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ACCOUNTING	
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ACCOUNTING	
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Sister M. Irene.....	PHYSICS	
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Miss Louise M. La Tona.....	LATIN, ENGLISH	334 Front Avenue
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Miss Frances Leahy.....	BIBLE, PHILOSOPHY	44 Laurel Street
Miss Jane Leahy.....	PHILOSOPHY, HISTORY	44 Laurel Street
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Sister M. Leontine.....	HISTORY, ENGLISH	
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Mr. Joseph C. Nowak.....	ENGLISH	1185 Genesee Street

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FRENCH, PHILOSOPHY	
Miss Marie E. O'Brien.....	443 Delaware Avenue
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Miss Josephine M. O'Brien.....	224 Walden Avenue
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Miss Beatrice Redmond.....	298 Jersey Street
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Miss Martha B. Schnieder.....	68 High Street
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Miss Beatrice E. Schrader.....	68 Meech Avenue
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Miss Claudine Schrader.....	68 Meech Avenue
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Miss Charlotte M. Schroeder.....	201 Laurel Street
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Miss Lillie Seel.....	95 Fox Street
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Miss Ada F. Simonds.....	Depew, N. Y.
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Miss Loretta M. Smith.....	
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Mr. Frank W. E. Smith.....	136 Albany Street
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MATHEMATICS, BIOLOGY, PHILOSOPHY	
Miss Gertrude M. Weber.....	27 Hughes Avenue
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Miss Emma W. Wetter.....	184 Best Street
FRENCH	
Mrs. Bertha S. Wilber.....	48 Granger Place
SOCIAL SCIENCE, PHILOSOPHY	
Sister M. William.....	
PHYSICS, FRENCH	
Miss Katharine A. Woods.....	140 Goulding Street
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